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Contents

Preface

v

Chapter 1 Overview of the RSX-11M-PLUS Documentation Set

1.1	Getting Started	1-1
1.2	How the Manuals Are Organized	1-1
1.3	Intended Reading Audiences for RSX-11M-PLUS Manuals	1-3
1.4	RSX-11M-PLUS Documentation Descriptions	1-5
1.4.1	Volume 1: Introduction	1-5
1.4.1.1	RSX-11M-PLUS Software Product Description	1-5
1.4.1.2	RSX-11M-PLUS Information Directory and Master Index	1-6
1.4.1.3	RSX-11M-PLUS Release Notes	1-6
1.4.1.4	Introduction to RSX-11M-PLUS	1-6
1.4.2	Volume 2: Operation	1-6
1.4.2.1	RSX-11M-PLUS System Generation and Installation Guide	1-6
1.4.2.2	RSX-11M-PLUS MCR Operations Manual	1-6
1.4.2.3	RSX-11M-PLUS Indirect Command Processor Manual	1-6
1.4.2.4	RSX-11M-PLUS Command Language Manual	1-7
1.4.2.5	RSX-11M-PLUS Batch and Queue Operations Manual	1-7
1.4.3	Volume 3: Utilities	1-7
1.4.3.1	RSX-11M-PLUS Utilities Manual	1-7
1.4.3.2	RSX-11M-PLUS and Micro/RSX Error Logging Manual	1-8
1.4.3.3	EDT Editor Manual	1-8
1.4.4	Volume 4: Program Development	1-8
1.4.4.1	RSX-11M-PLUS Guide to Program Development	1-9
1.4.4.2	PDP-11 MACRO-11 Language Reference Manual	1-9
1.4.4.3	RSX-11M-PLUS and Micro/RSX System Library Routines Reference Manual	1-9
1.4.4.4	RSX-11M-PLUS and Micro/RSX Debugging Reference Manual	1-9
1.4.4.5	RSX-11M-PLUS and Micro/RSX Task Builder Manual	1-9
1.4.4.6	RSX-11M-PLUS and Micro/RSX Executive Reference Manual	1-10

1.4.5	Volume 5: File Control Services and I/O Drivers	1-10
1.4.5.1	RSX-11M-PLUS and Micro/RSX I/O Operations Reference Manual	1-10
1.4.5.2	RSX-11M-PLUS and Micro/RSX I/O Drivers Reference Manual	1-10
1.4.6	Volume 6: Driver Development	1-10
1.4.6.1	RSX-11M-PLUS and Micro/RSX Guide to Writing an I/O Driver	1-11
1.4.6.2	RSX-11M-PLUS and Micro/RSX Crash Dump Analyzer Reference Manual	1-11
1.4.6.3	RSX-11M-PLUS and Micro/RSX XDT Reference Manual	1-11
1.4.7	Volume 7: System Management and Maintenance	1-11
1.4.7.1	RSX-11M-PLUS and Micro/RSX System Management Guide	1-11
1.4.8	Volume 8: PDP-11 Record Management Services	1-12
1.4.8.1	RSX-11M/M-PLUS RMS-11: An Introduction	1-12
1.4.8.2	RSX-11M/M-PLUS RMS-11 User's Guide	1-12
1.4.8.3	RSX-11M/M-PLUS RMS-11 Utilities	1-13
1.4.8.4	RSX-11M/M-PLUS RMS-11 Macro Programmer's Guide	1-13
1.4.9	RSX-11M-PLUS Mini-Reference	1-14
1.4.10	EDT Editor Reference Card	1-14
1.4.11	PDP-11 Programming Card	1-14
1.5	RSX-11S Documentation	1-14

Chapter 2 The RSX-11M-PLUS Master Index

2.1	Introduction to the Master Index	2-1
2.1.1	Format of the Master Index	2-1
2.1.2	Manuals Included in the Master Index	2-1

Figures

1-1	Suggested Reading Sequence for RSX-11M-PLUS Manuals	1-2
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Tables

1-1	RSX-11M-PLUS Documentation Set Kit Number QR500-GZ	1-3
2-1	Abbreviated Titles for Manuals in the RSX-11M-PLUS Master Index	2-2

Preface

Manual Objectives

The *RSX-11M-PLUS Information Directory and Master Index* introduces the RSX-11M-PLUS documentation set. It describes all the RSX-11M-PLUS manuals and contains a Master Index that is useful for referring to topics described in manuals in the documentation set. The descriptions of the manuals are intentionally brief; refer to the prefaces of individual manuals for additional information. Read the Information Directory before you read other manuals in the documentation set or use the system.

Intended Audience

The *RSX-11M-PLUS Information Directory and Master Index* is intended for all users of the RSX-11M-PLUS operating system. No previous knowledge of the system is required.

Structure of This Document

The first chapter of this manual briefly describes the manuals in the documentation set. It identifies the type of users that are likely to be interested in particular manuals, and it suggests a sequence for reading the manuals. The second chapter of this manual contains a Master Index which includes index entries for all the manuals in the documentation set.

Associated Documents

The next manual you should read in this documentation set is the *RSX-11M-PLUS Release Notes*, which will give you important information on the RSX-11M-PLUS software and documentation.

Chapter 1

Overview of the RSX-11M-PLUS Documentation Set

1.1 Getting Started

Your kit contains an RSX-11M-PLUS baseline system that is ready to run on your PDP-11 processor. You will use this baseline system to generate an RSX-11M-PLUS system, tailored to your own particular hardware and software requirements.

Before beginning system generation, you should become familiar with your RSX-11M-PLUS hardware configuration and with this documentation set, and you should thoroughly read the *RSX-11M-PLUS Release Notes* and the *RSX-11M-PLUS System Generation and Installation Guide*. You will then be prepared to choose among the options offered during system generation.

Figure 1-1 outlines a suggested sequence for reading the manuals in your documentation set. The sequence begins with introductory and more general manuals and proceeds to advanced manuals that assume a greater understanding of the system.

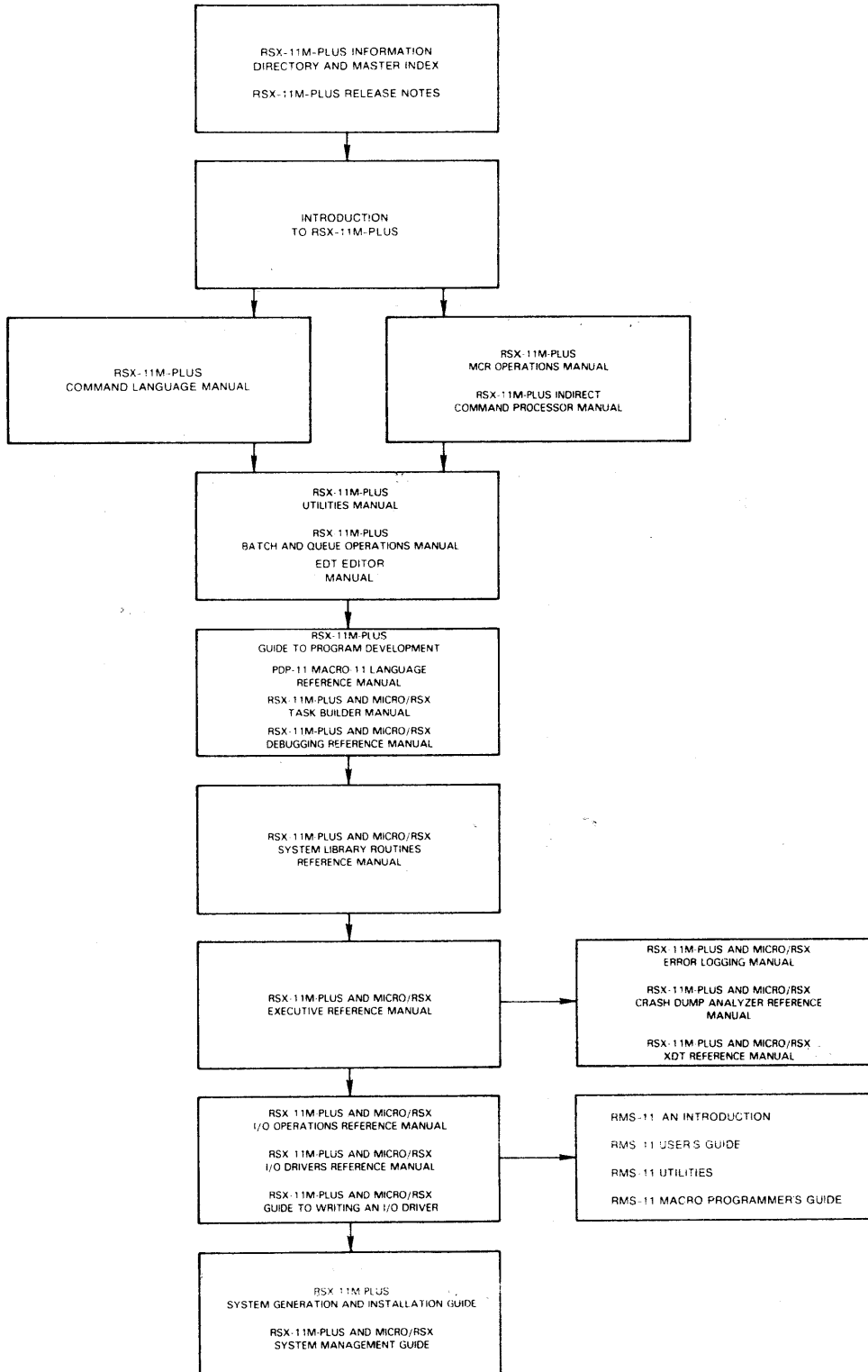
1.2 How the Manuals Are Organized

The RSX-11M-PLUS manuals are organized into eight volumes:

- Introduction
- Operation
- Utilities
- Program Development
- File Control Services and I/O Drivers
- Driver Development
- System Management and Maintenance
- PDP-11 Record Management Services

Each volume consists of one or more three-ring binders, and each binder contains one or more manuals. Refer to Table 1-1 for a complete list of the manuals.

Figure 1-1: Suggested Reading Sequence for RSX-11M-PLUS Manuals



ZK-170 81

The *EDT Editor Reference Card* and the *PDP-11 Programming Card* are packaged separately. The *RSX-11M-PLUS Mini-Reference* is also packaged separately in its own small binder.

1.3 Intended Reading Audiences for RSX-11M-PLUS Manuals

Table 1-1 lists the intended reading audience for each document in your set. The audience is divided into the loosely defined groups listed as follows (and indicated in Table 1-1 by an X in one or more of the columns):

- US The user: anyone who types at a terminal on an RSX-11M-PLUS operating system
- AP The applications programmer: anyone who uses the PDP-11 MACRO-11 assembly language or a high-level language to develop programs for user applications
- SP The system programmer: anyone who uses PDP-11 MACRO-11 to maintain, modify, and develop software used by the applications programmer or the user
- SM The system manager: the person familiar with and responsible for overall operation of an RSX-11M-PLUS system and its associated hardware

Table 1-1: RSX-11M-PLUS Documentation Set Kit Number QR500-GZ

Title and Order Number	US	AP	SP	SM
Handy Reference Materials				
<i>RSX-11M-PLUS Mini-Reference</i> AV-H435E-TC	X	X	X	X
<i>EDT Editor Reference Card</i> AV-J756A-TC	X	X	X	X
<i>PDP-11 Programming Card</i> EH-S1046-78		X	X	X
Volume 1: Introduction				
<i>RSX-11M-PLUS Software Product Description</i> AE-H862P-TC	X	X	X	X
<i>RSX-11M-PLUS Information Directory and Master Index</i> AA-H426F-TC	X	X	X	X
<i>RSX-11M-PLUS Release Notes</i> AA-H427F-TC	X	X	X	X
<i>Introduction to RSX-11M-PLUS</i> AA-FD03B-TC	X	X	X	X
Volume 2: Operation				
<i>RSX-11M-PLUS System Generation and Installation Guide</i> AA-H431F-TC			X	X
<i>RSX-11M-PLUS MCR Operations Manual</i> AA-JS12A-TC	X	X	X	X

Table 1-1 (Cont.): RSX-11M-PLUS Documentation Set Kit Number QR500-GZ

Title and Order Number	US	AP	SP	SM
<i>RSX-11M-PLUS Indirect Command Processor Manual</i> AA-JS10A-TC	X	X	X	X
<i>RSX-11M-PLUS Command Language Manual</i> AA-FD04B-TC	X	X	X	X
<i>RSX-11M-PLUS Batch and Queue Operations Manual</i> AA-JS18A-TC	X	X	X	X
Volume 3: Utilities				
<i>RSX-11M-PLUS Utilities Manual</i> AA-JS15A-TC	X	X	X	X
<i>RSX-11M-PLUS and Micro/RSX Error Logging Manual</i> AA-JS19A-TC			X	X
<i>EDT Editor Manual</i> AA-M476A-TK	X	X	X	X
Volume 4: Program Development				
<i>RSX-11M-PLUS Guide to Program Development</i> AA-JS20A-TC		X	X	X
<i>PDP-11 MACRO-11 Language Reference Manual</i> AA-V027B-TC		X	X	X
<i>RSX-11M-PLUS and Micro/RSX System Library Routines Reference Manual</i> AA-JS75A-TC		X	X	
<i>RSX-11M-PLUS and Micro/RSX Debugging Reference Manual</i> AA-JS09A-TC		X	X	X
<i>RSX-11M-PLUS and Micro/RSX Task Builder Manual</i> AA-JS08A-TC		X	X	X
<i>RSX-11M-PLUS and Micro/RSX Executive Reference Manual</i> AA-JS17A-TC		X	X	
Volume 5: File Control Services and I/O Drivers				
<i>RSX-11M-PLUS and Micro/RSX I/O Operations Reference Manual</i> AA-JS16A-TC		X	X	
<i>RSX-11M-PLUS and Micro/RSX I/O Drivers Manual</i> AA-JS11A-TC			X	
Volume 6: Driver Development				
<i>RSX-11M-PLUS and Micro/RSX Guide to Writing an I/O Driver</i> AA-H267C-TC		X	X	

Table 1-1 (Cont.): RSX-11M-PLUS Documentation Set Kit Number QR500-GZ

Title and Order Number	US	AP	SP	SM
<i>RSX-11M-PLUS and Micro/RSX Crash Dump Analyzer Reference Manual</i> AA-JS13A-TC			X	X
<i>RSX-11M-PLUS and Micro/RSX XDT Reference Manual</i> AA-JT78A-TC		X	X	X
Volume 7: System Management and Maintenance				
<i>RSX-11M-PLUS and Micro/RSX System Management Guide</i> AA-JS14A-TC			X	X
Volume 8: PDP-11 Record Management Services				
<i>RSX-11M/M-PLUS RMS-11: An Introduction</i> AA-L682A-TC	X	X	X	X
<i>RSX-11M/M-PLUS RMS-11 User's Guide</i> AA-L669A-TC		X		X
<i>RSX-11M/M-PLUS RMS-11 Utilities</i> AA-L670A-TC	X	X	X	X
<i>RSX-11M/M-PLUS RMS-11 Macro Programmer's Guide</i> AA-L668A-TC		X	X	

1.4 RSX-11M-PLUS Documentation Descriptions

The following sections contain brief descriptions of the volumes and the individual manuals in the RSX-11M-PLUS documentation set. For a complete description of any manual, read its preface.

1.4.1 Volume 1: Introduction

This volume includes information and manuals that introduce the RSX-11M-PLUS documentation set and operating system.

1.4.1.1 RSX-11M-PLUS Software Product Description

The Software Product Description (SPD) concisely describes the software features and system environment of RSX-11M-PLUS. It identifies the required and optional hardware and software along with the available training credits and additional services. It includes information on installation requirements and software product support, and it gives ordering information.

1.4.1.2 RSX-11M-PLUS Information Directory and Master Index

This manual orients the reader to the RSX-11M-PLUS documentation set. It includes descriptions of the manuals, a suggested sequence for reading the manuals, the intended reading audience for each manual, and a Master Index to the documentation set. The Master Index is composed of all the topics in the indexes for the individual manuals, without abridgment, and identifies the manual (or manuals) and page number (or page numbers) you need for information on a topic.

1.4.1.3 RSX-11M-PLUS Release Notes

This manual contains a summary description of new software features for this release as well as an overview of new device support. It also provides information about the operating system that is not documented in other manuals in the documentation set. Read the *RSX-11M-PLUS Release Notes* before generating and using your system.

1.4.1.4 Introduction to RSX-11M-PLUS

This tutorial manual is a simple, step-by-step introduction to the RSX-11M-PLUS operating system for new users. In an interactive terminal session, new users can log in to the system and practice using DIGITAL Command Language (DCL), the interactive text editor EDT, and program development facilities, on prepared demonstration files. After guiding the user through the practice session, the manual discusses some general system concepts and features. It also has a useful glossary that defines system terms in some detail.

1.4.2 Volume 2: Operation

The operation volume contains manuals that explain how to generate and install your RSX-11M-PLUS Version 4.1 system. It also documents the Monitor Console Routine (MCR), the DIGITAL Command Language (DCL), and batch and queue operations.

1.4.2.1 RSX-11M-PLUS System Generation and Installation Guide

This manual is a step-by-step guide to the system generation (SYSGEN) procedure. It includes instructions for copying the distribution kit onto the system disk and then generating an RSX-11M-PLUS system tailored to your needs.

1.4.2.2 RSX-11M-PLUS MCR Operations Manual

MCR is a command line interpreter, an interface for communication between you and the RSX-11M-PLUS operating system. This manual describes MCR commands and their formats and tells you how to use MCR. File ownership and file protection are explained. An alphabetical list of MCR and Task Termination Notification program (TKTN) messages is given in an appendix.

1.4.2.3 RSX-11M-PLUS Indirect Command Processor Manual

The Indirect Command Processor (Indirect) allows you to process files that contain Indirect, MCR, DCL, or utility commands. These commands are executed as though they had been entered from a terminal. This manual describes the Indirect commands, symbols, and functions, and presents actual examples.

1.4.2.4 RSX-11M-PLUS Command Language Manual

The DIGITAL Command Language (DCL) is a command line interpreter that provides direct, transparent access to most common MCR and utility functions. This manual is organized by system functions; it gives full descriptions of all DCL commands, with examples and notes on their usage. Also included is a quick reference guide to DCL commands and qualifiers.

1.4.2.5 RSX-11M-PLUS Batch and Queue Operations Manual

This manual explains the use of the Queue Manager (QMG) to control print and batch queue functions, and it describes, in detail, the QMG commands that control these functions. The manual also explains the batch processor and describes batch commands and syntax. Error messages are explained in the appendix, and there is a glossary.

1.4.3 Volume 3: Utilities

This volume contains three manuals, the *RSX-11M-PLUS Utilities Manual*, the *RSX-11M-PLUS and Micro/RSX Error Logging Manual*, and the *EDT Editor Manual*. The *RSX-11M-PLUS Utilities Manual* describes utilities that allow you to manipulate different kinds of files and their contents and to perform operations on supported media. The *RSX-11M-PLUS and Micro/RSX Error Logging Manual* describes the error logging system. The *EDT Editor Manual* describes the function and operation of the interactive text editor EDT.

1.4.3.1 RSX-11M-PLUS Utilities Manual

This manual explains each utility's use, describes its commands and switches, and gives detailed command formats and syntax rules. It describes the functions and operations of the following RSX-11M-PLUS utility programs:

- **Bad Block Locator Utility (BAD)**—Determines the number and location of bad blocks on a volume.
- **Backup and Restore Utility (BRU)**—Backs up files from a Files-11 volume to one or more backup volumes, and retrieves them as needed.
- **File Compare Utility (CMP)**—Compares two text files, record by record, and lists the differences between them.
- **File Dump Utility (DMP)**—A file listing program that allows you to examine the contents of a single file or a volume of files.
- **Disk Save and Compress Utility (DSC)**—Copies Files-11 disk files to tape or disk, and copies from DSC-created tape back to disk. (The function of the DSC utility is similar to that of the BRU utility.)
- **Line Text Editor (EDI)**—A line-oriented, interactive editor used to create and maintain text and source files.
- **File Transfer Utility Program (FLX)**—A file transfer and format conversion program that transfers files among DOS-11, RT-11, and Files-11 volumes.
- **Disk Volume Formatter Utility (FMT)**—Formats and verifies several types of Files-11 disks.
- **Librarian Utility Program (LBR)**—A library maintenance program that creates and modifies library files.

- Object Module Patch Utility (PAT)—Updates, or patches, relocatable binary object modules.
- Peripheral Interchange Program (PIP)—Copies files and performs file control functions.
- Source Language Input Program (SLP)—A noninteractive editing program that is used to maintain and edit source files.
- File Structure Verification Utility (VFY)—Verifies the consistency and validity of the file structure on a Files-11 volume.
- Task/File Patch Program (ZAP)—A patch utility that examines and directly modifies locations in a task image file or data file.

1.4.3.2 RSX-11M-PLUS and Micro/RSX Error Logging Manual

This manual explains the RSX-11M-PLUS error logging system, a combination of tasks that collect and report information about hardware-related events on an RSX-11M-PLUS system. The error logging system allows you to generate event reports in brief or full format, including information on the state of the system or hardware when the event occurred.

The manual includes chapters on the following:

- The Error Logger (ERRLOG) and the Error Log Interface (ELI)—ERRLOG obtains error information from the Executive and drivers and writes the information into the error log file. ELI sends user commands to ERRLOG.
- The Report Generator (RPT)—Generates Error Log Reports from the error log file.
- The Control File Language (CFL) compiler—Updates and modifies DIGITAL-supplied control file modules, or adds error logging support for non-DIGITAL devices.

1.4.3.3 EDT Editor Manual

This manual explains how to use the interactive text editor EDT to create and update ASCII text files. It explains the command line, keypad editing, line editing, nokeypad editing, and the redefining of keys. It also presents sample editing sessions.

1.4.4 Volume 4: Program Development

The first manual in this volume gives an overview of the program development process. The remaining manuals further explain the process by describing the MACRO-11 assembly language, I/O operations, system library routines, the On-Line Debugging Tool (ODT), the Task Builder (TKB), and the Executive.

1.4.4.1 RSX-11M-PLUS Guide to Program Development

This manual is a step-by-step guide to program development for the beginning MACRO-11 programmer. The manual describes the hardware and software necessary for program development and explains how to create, assemble, task build, debug, and maintain MACRO-11 programs. It also introduces the use of the Librarian Utility Program (LBR) for creating and maintaining user, macro, and object libraries. A brief description of FORTRAN program development is included to help orient the FORTRAN programmer. Examples are given for all steps in the program development process.

This guide is intended to be used together with other, more advanced manuals until you become familiar with the process; then, it can serve as a refresher guide.

1.4.4.2 PDP-11 MACRO-11 Language Reference Manual

This manual describes how to use the MACRO-11 assembler to code MACRO-11 programs. It includes descriptions of MACRO-11 features, directives for conditional assembly and program sectioning, and user-defined and System Macro Libraries. It also documents RSX-11M-PLUS operating procedures and error messages. Before reading the *PDP-11 MACRO-11 Language Reference Manual*, you should be familiar with your PDP-11 processor and the related terminology, as presented in the *PDP-11 Processor Handbook*.

1.4.4.3 RSX-11M-PLUS and Micro/R SX System Library Routines Reference Manual

This manual describes register handling and arithmetic routines, input and output data conversion routines, output formatting routines, and dynamic memory management and virtual memory management routines. For the more experienced programmer, a list of summary procedures is included.

1.4.4.4 RSX-11M-PLUS and Micro/R SX Debugging Reference Manual

This manual describes the use of the On-Line Debugging Tool (ODT) for debugging a task. Actual ODT command sequences are given, followed by explanatory text. The manual also describes procedures for debugging supervisor-mode libraries.

Before reading this manual, you should be familiar with the MACRO-11 assembly language and the Task Builder.

1.4.4.5 RSX-11M-PLUS and Micro/R SX Task Builder Manual

This manual describes the concepts and capabilities of the RSX-11M-PLUS and Micro/R SX Task Builder (TKB), the linker that produces executable task images (programs that are ready to be installed and run). It contains both programmer reference and operating information, including Task Builder allocation of virtual address space, resolution of global symbols, overlaying capability, the building of shared regions, instruction- and data-space tasks, supervisor-mode libraries, multiuser tasks, and cluster libraries.

Before reading this manual, you should be familiar with the procedures described in the *RSX-11M-PLUS MCR Operations Manual* or the *RSX-11M-PLUS Command Language Manual*, and the programming concepts discussed in the *RSX-11M-PLUS Guide to Program Development*.

1.4.4.6 RSX-11M-PLUS and Micro/R SX Executive Reference Manual

This manual describes the Executive services available for user tasks and the Executive (system) directives you need to obtain them. You must know how to develop user programs in MACRO-11 or in a high-level language such as FORTRAN to be able to use the Executive services.

1.4.5 Volume 5: File Control Services and I/O Drivers

This volume consists of manuals that describe the function of the File Control Services (FCS) and I/O drivers on an RSX-11M-PLUS system.

1.4.5.1 RSX-11M-PLUS and Micro/R SX I/O Operations Reference Manual

This manual provides reference material on RSX-11M-PLUS File Control Services (FCS). It explains how to use FCS to create, use, and delete files under program control. You should be familiar with MACRO-11 or FORTRAN program development procedures before using FCS.

The manual also describes the following:

- The Get Command Line subroutine (GCML)—Provides a device-independent interface for user programs retrieving command lines from either a terminal or a disk file.
- The Command String Interpreter (CSI)—Parses command lines containing file specifications and switches.
- The Table-Driven Parser (TPARS)—Parses command lines at two levels: a syntactical level and a semantic level. It is generated by parse tables created by the user.

Descriptions of ANSI magnetic tape support, unlabeled tape support, and the MAG SET command are included.

1.4.5.2 RSX-11M-PLUS and Micro/R SX I/O Drivers Reference Manual

This manual describes the functions of all DIGITAL-supplied I/O drivers. It provides the data needed by the experienced programmer who wants the advantages in space and time of interfacing with I/O drivers directly.

This manual describes the Files-11 Ancillary Control Processor (F11ACP) and the Magnetic Tape Ancillary Control Processor (MTAACP) and documents the queue I/O requests performed by these processors.

1.4.6 Volume 6: Driver Development

This volume consists of manuals that describe writing, maintaining, and debugging privileged software including I/O drivers.

1.4.6.1 RSX-11M-PLUS and Micro/RSX Guide to Writing an I/O Driver

This guide is an aid in writing an I/O driver to service a peripheral device for which DIGITAL does not supply a driver. It documents changes to system data structures made to accommodate the Error Logger and alternate Command Line Interpreter (CLI) support. Tables are included to aid you in determining the device mask word for user-written drivers, and an appendix describes the conversion of drivers from RSX-11M to RSX-11M-PLUS.

Before you read this manual, you should fully understand the operation of the device for which you require a driver. You must also be familiar with your PDP-11 processor, its peripheral devices, and the software supplied with the RSX-11M-PLUS system.

1.4.6.2 RSX-11M-PLUS and Micro/RSX Crash Dump Analyzer Reference Manual

This manual explains how to use the Crash Dump Analyzer (CDA) to determine the causes of system crashes. It contains operating instructions, descriptions of CDA switches and error messages, examples of CDA output listings, and an explanation of how to interpret the output listings. The manual also includes system symbolic and data structure macro definitions.

1.4.6.3 RSX-11M-PLUS and Micro/RSX XDT Reference Manual

This manual describes how to use the Executive Debugging Tool (XDT), an interactive tool for debugging privileged code.

1.4.7 Volume 7: System Management and Maintenance

This volume consists of one manual that describes how to operate your system correctly and effectively.

1.4.7.1 RSX-11M-PLUS and Micro/RSX System Management Guide

This manual documents the following programs that the system manager can use to test, monitor, maintain, and customize an RSX-11M-PLUS operating system:

- Account File Maintenance Program (ACNT)—Creates and maintains accounts on multiuser protection systems.
- Console Logger (CODRV and COT)—Handles I/O to the console output device and records system messages at a terminal and/or in a log file.
- I/O Exerciser (IOX)—Detects and diagnoses I/O problems on tape and disk units.
- Bad Block Replacement Control Task (RCT)—Performs bad block handling and recovery on Mass Storage Control Protocol (MSCP) devices.
- Resource Monitoring Display (RMD)—Displays information about the tasks currently active on the system and the system's available resources.
- System Shutdown Task (SHUTUP)—Shuts down the system in an orderly fashion.
- Virtual Monitor Console Routine (VMR)—A subset of MCR commands that you can use to alter a system image file.

- **Shuffler (SHF)**—Compresses space in system-controlled partitions when a memory allocation failure occurs.
- **System Configuration Services (CON and HRC)**—Reconfigure an RSX-11M-PLUS system in order to bypass faulty hardware elements and to isolate the system from their effects.

The manual includes information on how to manage pool resources and the PMT program; how to set up and run the Queue Manager; how to extend and alter DCL; and how to write command line interpreters (CLIs). The manual also includes information on Resource Accounting, queue optimization, Shadow Recording (SHA), and disk data caching. The Serial Despooler and RSX-11M-PLUS system conventions are described in separate appendixes.

1.4.8 Volume 8: PDP-11 Record Management Services

This volume is composed of a set of manuals that describes the PDP-11 Record Management Services (RMS-11). For information on where the RMS-11 files and utilities can be found on the RSX-11M-PLUS distribution kit, see the *RSX-11M-PLUS System Generation and Installation Guide*.

1.4.8.1 RSX-11M/M-PLUS RMS-11: An Introduction

This manual introduces the major concepts of RMS-11: record formats, file organizations, and record access modes. It introduces the RMS-11 operations and utility programs, and it defines the key terms necessary to understand RMS-11 capabilities and functions.

The manual is intended for all users of RMS-11, including both MACRO-11 and high-level language programmers. Nonprogramming users, programming users who are new to RSX-11M-PLUS, and RSX-11M-PLUS programmers who are new to RMS-11 should find this document especially useful.

The manual does not provide reference or usage information. You should read this manual before reading the other RMS-11 manuals.

1.4.8.2 RSX-11M/M-PLUS RMS-11 User's Guide

This manual is a guide to using RMS-11 in file and task design for application programs written in either MACRO-11 or high-level languages. It is intended for application programmers who want to achieve optimal performance either with a new application they are writing or with an existing application that no longer performs satisfactorily.

The manual first presents general design considerations to help users select the appropriate file organization for their applications. Then the details of file structure, design, and processing are discussed for each of the three RMS-11 file organizations: sequential, relative, and indexed. Finally, the manual describes techniques that can be used to optimize application program performance, regardless of file organization.

Note that only MACRO-11 programmers can use the full set of RMS-11 capabilities. Subsets of those capabilities are available to high-level language programmers. Programmers who are writing applications in high-level languages should consult their language documentation for details on RMS-11 support.

1.4.8.3 RSX-11M/M-PLUS RMS-11 Utilities

This reference manual describes the utility programs supported by RMS-11. It is intended for users such as high-level language programmers and nonprogramming users (system managers and operators, for example), who either do not require or do not have access to the full set of RMS-11 capabilities.

The RMS-11 utility programs are the following:

- **RMS-11 File Design Utility (RMSDES)**—An interactive utility for designing and creating sequential, relative, and indexed files.
- **RMS-11 Indexed File Load Utility (RMSIFL)**—Reads records from an RMS-11 file of any kind of organization and loads them into an indexed file, optimizing all indexes, both primary and alternates (if any).
- **RMS-11 File Conversion Utility (RMSCNV)**—Reads records from an RMS-11 file of any organization and loads them into another RMS-11 file of any organization. Note that RMSCNV, unlike RMSIFL, optimizes only the primary index when it loads an indexed file.
- **RMS-11 File Display Utility (RMSDSP)**—Produces a concise description of any RMS-11 file, including backup files.
- **RMS-11 File Back-Up Utility (RMSBCK)**—Transfers the contents of an RMS-11 file to another file, on another device, to preserve it in case the original file is lost or damaged.
- **RMS-11 File Restoration Utility (RMSRST)**—Restores files that were backed up by RMSBCK, so that they can be accessed by user programs.

The manual also documents RMSDEF, which has been superseded by RMSDES.

1.4.8.4 RSX-11M/M-PLUS RMS-11 Macro Programmer's Guide

This document is a reference manual describing the macros and symbols that make up the interface between a MACRO-11 program and the RMS-11 operation routines. It is intended for both MACRO-11 programmers and high-level language programmers who want to use the full set of RMS-11 capabilities in a MACRO-11 subprogram.

The manual presents such programming considerations as how to use RMS-11 macros and symbols in a MACRO-11 program, how to use the directory and file operations to process directories and files, and how to use the stream operations and record or block operations to process records or blocks. Detailed reference information is provided on each RMS-11 operation macro, the control blocks it uses, the options that can be specified in each control block field, and the values returned in control block fields. A summary of each control block, field, value, and mask is also provided.

In addition, the manual describes the RMS-11 completion codes, fatal error codes, and assembly-time messages.

1.4.9 RSX-11M-PLUS Mini-Reference

This small manual is a convenient reference for all system users. It includes sections on the Monitor Console Routine (MCR), the DIGITAL Command Language (DCL), the Task Builder (TKB), the RSX-11M-PLUS utilities, the On-Line Debugging Tool (ODT), the error logging system, the batch processor, the Queue Manager (QMG), the I/O error codes, the directive error codes, the Executive directive summary, the RMS-11 utilities, and the RMS-11 error codes. The manual also includes Radix-50 conversion tables and the ASCII character set.

1.4.10 EDT Editor Reference Card

This reference card describes keypad editing for the DIGITAL VT52 and VT100 video terminals. It presents common keyboard functions and gives instructions for beginning and ending an editing session. Keypad diagrams for the VT52 and VT100 terminals are included.

1.4.11 PDP-11 Programming Card

This card includes programming information on the following topics:

- PDP-11 addressing modes
- Single-operand instructions
- Double-operand instructions
- Processor register addresses
- Device register addresses
- 7-bit ASCII code
- Bootstrap loader starting addresses and device vectors

1.5 RSX-11S Documentation

The RSX-11S operating system is an optional, separately purchased product, supported by the RSX-11M-PLUS system. Included with the RSX-11S software is the RSX-11S documentation set. Some of the manuals in the documentation set describe the features and capabilities of the RSX-11S operating system, while others describe the host system.

The RSX-11S documentation set is fully described in the *RSX-11M/RSX-11S Information Directory and Master Index*. It is important that you thoroughly read the *RSX-11M/RSX-11S Release Notes* before reading the other manuals in the RSX-11S documentation set and generating your RSX-11S system.

Chapter 2

The RSX-11M-PLUS Master Index

2.1 Introduction to the Master Index

The Master Index is a comprehensive index to the entire RSX-11M-PLUS documentation set. The indexes of the individual manuals have been compiled without abridgment into the Master Index.

The Master Index is valuable to new users who are not sure which manual contains the information they need. It is valuable to all users as an index to topics that are discussed (or might logically be discussed) in more than one manual.

2.1.1 Format of the Master Index

Each entry in the Master Index is followed by the title of the manual it is referencing. For example, the complete title *RSX-11M-PLUS MCR Operations Manual* is abbreviated to "MCR." The titles of all manuals are in italics. See the next section for a list of the abbreviated titles.

2.1.2 Manuals Included in the Master Index

Table 2-1 contains a list of all the manuals included in the RSX-11M-PLUS Master Index. The Abbreviated Title column lists the shortened titles of manuals appearing in the Master Index, whereas the Complete Title column lists the full titles of manuals. Note that indexes for the *EDT Editor Manual* and the *RSX-11M-PLUS Release Notes* are not included in the Master Index.

Table 2-1: Abbreviated Titles for Manuals in the RSX-11M-PLUS Master Index

Abbreviated Title	Complete Title
Batch and Queue	<i>RSX-11M-PLUS Batch and Queue Operations Manual</i>
Command Language	<i>RSX-11M-PLUS Command Language Manual</i>
Crash Dump Analyzer	<i>RSX-11M-PLUS and Micro/RSX Crash Dump Analyzer Reference Manual</i>
Debugging	<i>RSX-11M-PLUS and Micro/RSX Debugging Reference Manual</i>
Error Logging	<i>RSX-11M-PLUS and Micro/RSX Error Logging Manual</i>
Executive	<i>RSX-11M-PLUS and Micro/RSX Executive Reference Manual</i>
Indirect	<i>RSX-11M-PLUS Indirect Command Processor Manual</i>
Introduction	<i>Introduction to RSX-11M-PLUS</i>
I/O Drivers	<i>RSX-11M-PLUS and Micro/RSX I/O Drivers Reference Manual</i>
I/O Operations	<i>RSX-11M-PLUS and Micro/RSX I/O Operations Reference Manual</i>
MACRO-11	<i>PDP-11 MACRO-11 Language Reference Manual</i>
MCR	<i>RSX-11M-PLUS MCR Operations Manual</i>
Program Development	<i>RSX-11M-PLUS Guide to Program Development</i>
RMS-11 Introduction	<i>RSX-11M/M-PLUS RMS-11: An Introduction</i>
RMS-11 User's Guide	<i>RSX-11M/M-PLUS RMS-11 User's Guide</i>
RMS-11 Utilities	<i>RSX-11M/M-PLUS RMS-11 Utilities</i>
RMS-11 Macro	<i>RSX-11M/M-PLUS RMS-11 Macro Programmer's Guide</i>
System Generation	<i>RSX-11M-PLUS System Generation and Installation Guide</i>
System Library	<i>RSX-11M-PLUS and Micro/RSX System Library Routines Reference Manual</i>
System Management	<i>RSX-11M-PLUS and Micro/RSX System Management Guide</i>
Task Builder	<i>RSX-11M-PLUS and Micro/RSX Task Builder Manual</i>
Utilities	<i>RSX-11M-PLUS Utilities Manual</i>
Writing I/O Driver	<i>RSX-11M-PLUS and Micro/RSX Guide to Writing an I/O Driver</i>
XDT	<i>RSX-11M-PLUS and Micro/RSX XDT Reference Manual</i>

Master Index

A

- A/D converter
 - function code list, *I/O Drivers*, B-11
- AA11-K D/A converter, *I/O Drivers*, 13-2
- AAV11-A D/A converter, *I/O Drivers*, 13-2
- /ABAUD keyword
 - SET command, MCR, 3-157
 - SET command (VMR), *System Management*, 5-50
- ABO command
 - See ABORT command
- ABODF\$, *Crash Dump Analyzer*, C-3
- :AB option
 - QUE /STO command, *System Management*, 3-33
- ABORT command, *Debugging*, 1-6; MCR, 3-2; DCL, 7-17 to 7-20, 9-2;
 - Introduction*, 1-16, 5-14
 - brief description, MCR, 1-6
 - examples, MCR, 3-3
 - format, MCR, 3-3
 - IOX, *System Management*, 12-15
 - parameters, MCR, 3-3
 - /PMD keyword, MCR, 3-3
 - Shadow Recording, *System Management*, 16-7
 - /TERM keyword, MCR, 3-3
- ABORT option, *Task Builder*, 12-5
- /ABORT qualifier
 - STOP/PROCESSOR command, *System Management*, 3-33
 - STOP/QUEUE/MANAGER command, *System Management*, 3-35
- Abort Task directive, *Executive*, 5-10
- ABRT\$ directive, *Executive*, 5-10
 - ABS. default program section name, MACRO-11, 5-36
- ABS argument
 - for .ENABL/.DSABL, MACRO-11, 5-14
 - for .PSECT, MACRO-11, 5-35
- Absolute address, *Debugging*, 2-2
- Absolute expression
 - definition, MACRO-11, 2-15
- Absolute location, *Debugging*, 2-5, 4-4; XDT, 2-11
- Absolute Mode switch
 - See /AB switch
- ABSPAT option, *Task Builder*, 12-6
- /AB switch
 - ZAP utility, *Utilities*, 15-2, 15-5
- Acceptance routine, *Writing I/O Driver*, 1-14
- Access, RMS-11 *User's Guide*, 1-7; RMS-11 *Intro*, 1-1
 - See also Access mode
 - See also Shared access
 - block, RMS-11 *User's Guide*, 1-20, 3-6; RMS-11 *Intro*, 4-7
 - direct, RMS-11 *Intro*, 2-4
 - modes, RMS-11 *Intro*, 3-11
 - random, RMS-11 *User's Guide*, 1-7, 1-9; RMS-11 *Intro*, 2-4
 - to indexed files, RMS-11 *User's Guide*, 5-7, 5-9
 - sequential, RMS-11 *User's Guide*, 1-7; RMS-11 *Intro*, 2-4
 - to indexed files, RMS-11 *User's Guide*, 5-16
 - shared, RMS-11 *Intro*, 2-4
 - structure, RMS-11 *Intro*, 3-1
- Access control, RMS-11 *User's Guide*, 1-9
- Access control parameter
 - F11ACP, *I/O Operations*, H-12
- Access declaration, RMS-11 *User's Guide*, 2-6
 - read/write, RMS-11 *User's Guide*, 2-6

Access declaration (cont'd.)

- read-only, *RMS-11 User's Guide*, 2-6
- relative files, *RMS-11 User's Guide*, 4-6
- sequential files, *RMS-11 User's Guide*, 3-6

/ACCESSED qualifier

- MOUNT command, *System Management*, 1-8

/ACCESS keyword

- INITVOLUME command, *MCR*, 3-84

Access mode, *RMS-11 Intro*, 3-1, 3-11

See also Random access

See also Sequential access

and file organization, *RMS-11 Intro*, 3-13

block, *RMS-11 User's Guide*, 1-20, 3-6;

RMS-11 Intro, 3-11, 3-12, 4-7

sequential, *RMS-11 Intro*, 3-12

VBN, *RMS-11 Intro*, 3-11

FIND operation

indexed files, *RMS-11 User's Guide*, 7-3

relative files, *RMS-11 User's Guide*, 4-8

sequential files, *RMS-11 User's Guide*, 3-7

GET operation

indexed files, *RMS-11 User's Guide*, 7-4

relative files, *RMS-11 User's Guide*, 4-10

sequential files, *RMS-11 User's Guide*, 3-9

PUT operation

indexed files, *RMS-11 User's Guide*, 7-6

relative files, *RMS-11 User's Guide*, 4-11

sequential files, *RMS-11 User's Guide*, 3-10

random

by key, *RMS-11 User's Guide*, 1-12

by RFA, *RMS-11 User's Guide*, 1-12

by VBN, *RMS-11 User's Guide*, 1-20

to indexed files, *RMS-11 Intro*, 3-14

to relative files, *RMS-11 Intro*, 3-15

to sequential files, *RMS-11 Intro*, 3-14

record, *RMS-11 User's Guide*, 1-12;

RMS-11 Intro, 3-11, 4-5

FIND operations, *RMS-11 Intro*, 4-6

GET operations, *RMS-11 Intro*, 4-6

key, *RMS-11 Intro*, 3-12

PUT operations, *RMS-11 Intro*, 4-6

RFA, *RMS-11 Intro*, 3-11

sequential, *RMS-11 Intro*, 3-11

sequential

blocks, *RMS-11 User's Guide*, 1-20

records, *RMS-11 User's Guide*, 1-12

Access mode

sequential (cont'd.)

to indexed files, *RMS-11 Intro*, 3-14

to relative files, *RMS-11 Intro*, 3-14

to sequential files, *RMS-11 Intro*, 3-14

switching, *RMS-11 Intro*, 3-13

Access path

switching between, *Writing I/O Driver*, 1-12

Access shared function, *I/O Operations*, 2-14

Access shared read function, *I/O Operations*, 1-14

Access shared write function, *I/O Operations*, 1-13

Access sharing, *RMS-11 Intro*, 2-4

See also Shared access

read, *RMS-11 Intro*, 3-6

write, *RMS-11 Intro*, 3-6

Access stream, *RMS-11 User's Guide*, 1-15

multiple, *RMS-11 User's Guide*, 2-17

and shared access, *RMS-11 User's Guide*, 2-9 to 2-10

indexed files, *RMS-11 User's Guide*, 7-10

relative files, *RMS-11 User's Guide*, 4-15

sequential files, *RMS-11 User's Guide*, 3-15

Access types

file protection codes

initializing volumes with, *MCR*, 3-88

mounted Files-11 volume, *MCR*, 3-113

specifying default, *MCR*, 3-80

specifying personal default, *MCR*, 3-164

file protection mask, *MCR*, 2-3

UFD

establishing, *MCR*, 3-209

volume protection codes

initializing volumes with, *MCR*, 3-91

specifying default, *MCR*, 3-82

specifying default for mounted volume, *MCR*, 3-115

<ACCOUN> symbol, *Indirect*, 2-22

Account

and UFD, *MCR*, 2-2

and UIC, *MCR*, 2-2

creating, *MCR*, 2-22

protection, *MCR*, 3-177

transferring, *System Management*, 2-2

ACCOUNT.DAT file, *System Management*, 10-17

- Account blocks, *System Management*, 10-23
 - memory-resident, *System Management*, 10-23
 - non-memory-resident, *System Management*, 10-23
- Account file
 - contents of, MCR, 2-22
 - increasing size of, *System Management*, 2-13
 - on distribution kit, *System Generation*, 4-6
 - on pregenerated kit, *System Generation*, 5-36
 - using from another system, *System Management*, 2-2
- Account File Maintenance Program
 - See ACNT
- Accounting
 - SYSGEN question, *System Generation*, 3-28
- Accounting Startup Transaction Block, *System Management*, 10-34
- Accpath status flag, *System Management*, 4-13
- ACD command
 - See ANCILLARY CONTROL DRIVER command
- ACFPAR.DAT file, *System Generation*, 5-33; *System Management*, 4-1
 - modifying, *System Generation*, 5-34; *System Management*, 4-2
 - record format
 - controller, *System Generation*, 5-34; *System Management*, 4-2
 - CPU, *System Generation*, 5-34; *System Management*, 4-2
 - line frequency, *System Generation*, 5-34; *System Management*, 4-2
- ACFPRE.TSK file, *System Generation*, 5-33; *System Management*, 4-1
- \$ACHCK routine, *Writing I/O Driver*, 7-7
- \$ACHKB routine, *Writing I/O Driver*, 7-7
- ACHN\$ directive, *Executive*, 5-12
- ACNDF\$, *Crash Dump Analyzer*, C-5
- ACNT, *System Management*, 2-1; DCL, 3-9 to 3-11, 4-1
 - account entry
 - contents, *System Management*, 2-1
 - deleting, *System Management*, 2-6
 - examining, *System Management*, 2-8
 - listing, *System Management*, 2-10
 - modifying, *System Management*, 2-11
 - account file
 - copying, *System Management*, 2-3
 - extending, *System Management*, 2-3

- ACNT
 - account file (cont'd.)
 - maximum number of entries, *System Management*, 2-4
 - sorting, *System Management*, 2-13
 - changing password, MCR, 3-195; *System Management*, 2-2
 - description, *System Management*, 1-11
 - error messages, *System Management*, 2-14
 - invoking, *System Management*, 2-3
 - nonprivileged use, *System Management*, 2-2
 - options, *System Management*, 2-3
 - ADD, *System Management*, 2-4
 - CREATE, *System Management*, 2-3
 - DELETE, *System Management*, 2-6
 - EXAMINE, *System Management*, 2-8
 - EXIT, *System Management*, 2-13
 - LIST, *System Management*, 2-10
 - MODIFY, *System Management*, 2-11
 - SORT, *System Management*, 2-13
 - password encryption, *System Management*, 2-1
 - protection
 - restoring, *System Management*, 2-3
 - setting new password, MCR, 3-177
 - use of, MCR, 2-22
 - using ESCAPE key to list options, *System Management*, 2-4
- ACNTRN.CMD file, *System Management*, 10-18
- ACP, DCL, 5-4, 5-49
 - See also Ancillary Control Processor
 - definition, *System Generation*, 1-7
 - error return, *I/O Operations*, H-3
 - IE.ABO, *I/O Operations*, H-3
 - IE.ALC, *I/O Operations*, H-3
 - IE.ALN, *I/O Operations*, H-3
 - IE.BAD, *I/O Operations*, H-3
 - IE.BDR, *I/O Operations*, H-4
 - IE.BTP, *I/O Operations*, H-4
 - IE.BVR, *I/O Operations*, H-4
 - IE.BYT, *I/O Operations*, H-4
 - IE.CKS, *I/O Operations*, H-4
 - IE.CLO, *I/O Operations*, H-4
 - IE.DFU, *I/O Operations*, H-4
 - IE.DUP, *I/O Operations*, H-4
 - IE.EOF, *I/O Operations*, H-4
 - IE.HFU, *I/O Operations*, H-4
 - IE.IFC, *I/O Operations*, H-4
 - IE.IFU, *I/O Operations*, H-4
 - IE.LCK, *I/O Operations*, H-5
 - IE.LUN, *I/O Operations*, H-5

ACP

error return (cont'd.)

- IE.NOD, *I/O Operations*, H-5
- IE.NSF, *I/O Operations*, H-5
- IE.OFL, *I/O Operations*, H-5
- IE.PRI, *I/O Operations*, H-5
- IE.RER, *I/O Operations*, H-5
- IE.SNC, *I/O Operations*, H-5
- IE.SPC, *I/O Operations*, H-5
- IE.SQC, *I/O Operations*, H-5
- IE.WAC, *I/O Operations*, H-5
- IE.WAT, *I/O Operations*, H-5
- IE.WER, *I/O Operations*, H-6
- IE.WLK, *I/O Operations*, H-6

QIO\$ function

- closing a file, *I/O Operations*, H-3
- creating a file, *I/O Operations*, H-2
- deleting a file, *I/O Operations*, H-3
- extending a file, *I/O Operations*, H-3
- opening a file, *I/O Operations*, H-3
- using, *I/O Operations*, H-2

QIO\$ interface, *I/O Operations*, H-1

- specifying task, *Task Builder*, 10-5, 11-10

ACP function mask, *Writing I/O Driver*, 4-19

/ACP keyword

- MOUNT command, *MCR*, 3-111, 3-119

ACS command, *System Management*, 1-5

- See also ALLOCATE CHECKPOINT
SPACE command

ACSUB module, *System Management*, 10-18

/AC switch, *Task Builder*, 10-5

/ACT, *Crash Dump Analyzer*, 2-3, 2-5

ACT command

- See ACTIVE command

ACTFIL option, *Task Builder*, 12-7

Action routine, *I/O Operations*, 7-5

- calling, *I/O Operations*, 7-5

- using, *I/O Operations*, 7-6

Action statement

- CFL, *Error Logging*, 5-30 to 5-31

ACTIVE command, *MCR*, 3-8

- brief description, *MCR*, 1-6

- examples, *MCR*, 3-8

- format, *MCR*, 3-8

- keywords

- /ALL, *MCR*, 3-8

- /TERM, *MCR*, 3-8

Active Page Register

- See APR

Active task

- address of TCB, *Crash Dump Analyzer*, 3-16

Active task (cont'd.)

- AST queue, *Crash Dump Analyzer*, 3-18

- attribute bits, *Crash Dump Analyzer*, 3-17

- blocking bits, *Crash Dump Analyzer*, 3-17

- name, *Crash Dump Analyzer*, 3-16

- partition, *Crash Dump Analyzer*, 3-16

- receive-by-reference queue, *Crash Dump Analyzer*, 3-19

- receive queue, *Crash Dump Analyzer*, 3-18

- state bits, *Crash Dump Analyzer*, 3-17

- task image, *Crash Dump Analyzer*, 3-16

Active task display

RMD

- altering from MCR command line,
System Management, 7-11

- altering from setup page, *System Management*, 7-11

- description, *System Management*, 7-10

- example, *System Management*, 7-10

- OWNER command, *System Management*, 7-11

- PRIORITY command, *System Management*, 7-11

- TASK command, *System Management*, 7-11

Active task dump, *Crash Dump Analyzer*, 3-16

- AST queue, *Crash Dump Analyzer*, 3-16

- Offspring Control Block, *Crash Dump Analyzer*, 3-16

- receive-by-reference queue, *Crash Dump Analyzer*, 3-16

- receive queue, *Crash Dump Analyzer*, 3-16

ACTIVE TASK LIST command, *MCR*, 3-24

- brief description, *MCR*, 1-6

- example, *MCR*, 3-27

- format, *MCR*, 3-26

Activity report

- IOX, *System Management*, 12-12, 12-42

- directing to device, *System Management*, 12-34

- generating summary, *System Management*, 12-42

AD11-K converter, *I/O Drivers*, 13-2

Add & Print command

- EDI editor, *Utilities*, 7-17

Add command

- EDI editor, *Utilities*, 7-17

Addition binary operator

- CFL expression, *Error Logging*, 5-14

Addition operator

- summary, *MACRO-11*, 2-4

- Addition precedence class operator
 - CFL expression, *Error Logging*, 5-16
- ADD option
 - ACNT, *System Management*, 2-4
- Address
 - See also RFA
 - absolute, *Debugging*, 2-2, 5-5
 - multicast mode (XEDRV), *I/O Drivers*, 10-2
 - pairs
 - Ethernet (XEDRV), *I/O Drivers*, 10-2
 - physical
 - See Physical address
 - physical mode (XEDRV), *I/O Drivers*, 10-2
 - record, *RMS-11 User's Guide*, 1-9
 - relative, *Debugging*, 2-2
 - format, *Debugging*, 2-2
 - relocatable, *Debugging*, 2-2, 5-5;
 - Introduction*, 5-6; *XDT*, 2-13
 - calculating, *Debugging*, 2-8, 7-1
 - relocating, *Task Builder*, 2-12
 - virtual, *Task Builder*, 2-15
 - See also Virtual address
- Address boundary
 - See ZAP utility
- Address doubleword, *Writing I/O Driver*, 7-1, 7-2
- Address expression
 - See Expression
- Addressing mode, *MACRO-11*, 4-1
 - absolute, *MACRO-11*, 4-6
 - autodecrement, *MACRO-11*, 4-4
 - autodecrement deferred, *MACRO-11*, 4-4
 - autoincrement, *MACRO-11*, 4-3
 - autoincrement deferred, *MACRO-11*, 4-3
 - difference between absolute and relative, *MACRO-11*, 4-7
 - effect of .ENABL AMA, *MACRO-11*, 4-7
 - immediate, *MACRO-11*, 4-5
 - index, *MACRO-11*, 4-4
 - index deferred, *MACRO-11*, 4-5
 - register, *MACRO-11*, 4-3
 - register deferred, *MACRO-11*, 4-3
 - relative, *MACRO-11*, 4-6
 - relative deferred, *MACRO-11*, 4-8
 - summary, *MACRO-11*, B-2
 - table of, *MACRO-11*, 4-2
- Address mapping, *Executive*, 3-2
- Address space
 - allocating, *Task Builder*, 2-5
 - logical, *Executive*, 3-2; *Task Builder*, 2-15
- Address space (cont'd.)
 - virtual, *Executive*, 3-2; *Task Builder*, 2-15
 - reducing use, *Task Builder*, 3-1
- Address window
 - creating, *Executive*, 5-47
 - declaring number of, *Task Builder*, 12-45
 - deleting, *Executive*, 5-74
 - mapping to region, *Executive*, 5-145
 - unmapping, *Executive*, 5-292
 - virtual, *Executive*, 3-3
- Addr parameter
 - DIR\$ macro, *I/O Drivers*, 1-16
- ADINP: subroutine
 - initiating single analog output (K-series), *I/O Drivers*, 13-7
- /ADJACENT qualifier
 - PRINT command, *Batch and Queue*, 2-3
- /AD switch
 - PRI command, *Batch and Queue*, 2-3
- ADSWP: subroutine
 - initiating synchronous A/D sweep
 - K-series, *I/O Drivers*, 13-8
 - synchronous A/D sweep
 - LADRV, *I/O Drivers*, 12-3
- /ADV, *Crash Dump Analyzer*, 2-3, 2-5
- ADV11-A D/A converter, *I/O Drivers*, 13-2
- Advance driver feature, *Writing I/O Driver*, 1-18, 2-4
- ADVANCE function
 - EDT editor, *Introduction*, 2-7
- Adwell parameter
 - XRATE: subroutine
 - K-series, *I/O Drivers*, 13-28
 - LADRV, *I/O Drivers*, 12-23
- A error
 - .ASCII, *MACRO-11*, 5-20
 - .ASCIZ, *MACRO-11*, 5-21
 - .BLKB/.BLKW, *MACRO-11*, 5-32
 - .BYTE, *MACRO-11*, 5-17
 - .ENABL/.DSABL, *MACRO-11*, 5-13
 - .ENDM, *MACRO-11*, 6-3
 - for invalid floating-point number, *MACRO-11*, 5-28
 - .IF, *MACRO-11*, 5-45
 - .IIF, *MACRO-11*, 5-49
 - in bad expression, *MACRO-11*, 2-14
 - inconsistent current location counter
 - attribute, *MACRO-11*, 2-12
 - invalid forward reference defining global, *MACRO-11*, 2-8
 - .IRP, *MACRO-11*, 6-18
 - .IRPC, *MACRO-11*, 6-19

A error (cont'd.)

- .LIST/.NLIST, *MACRO-11*, 5-8
- .MACRO, *MACRO-11*, 6-3
- .NARG, *MACRO-11*, 6-13
- .NCHR, *MACRO-11*, 6-14
- .NTYPE, *MACRO-11*, 6-15
- on EMT and TRAP instructions,
 MACRO-11, 4-8
- .PSECT, *MACRO-11*, 5-34, 5-37
- .RAD50, *MACRO-11*, 5-22
- .RADIX, *MACRO-11*, 5-26
- .REPT, *MACRO-11*, 6-21
- .RESTORE, *MACRO-11*, 5-40
- .SAVE, *MACRO-11*, 5-40
- single or double quotation mark character
 storage, *MACRO-11*, 5-19
- .TITLE, *MACRO-11*, 5-10
- /AF:::TOMORROW switch, *Batch and Queue*,
 3-15
- /AFF keyword
 - INS command (VMR), *System Management*,
 5-21
 - INSTALL command, *MCR*, 3-95
 - OPENREGISTER command, *MCR*, 3-127
 - SET command (VMR), *System Management*,
 5-51
- /AF job switch
 - SUB command, *Batch and Queue*, 3-15
- /AF switch
 - PRI command, *Batch and Queue*, 2-3
 - QUE /MOD command, *Batch and Queue*,
 2-19
- /AFTER:TOMORROW qualifier, *Batch and Queue*, 3-15
- /AFTER qualifier
 - PRINT command, *Batch and Queue*, 2-3
 - SET QUEUE command, *Batch and Queue*,
 2-19
 - SUBMIT command, *Batch and Queue*, 3-15
- \$ALBLK (Allocate block), *System Library*, 8-10
- ALERR module, *Task Builder*, 4-17, 5-62
- ALERR routine, *Task Builder*, 4-19
- Alignment
 - RMSDEF utility, *RMS-11 Utilities*, A-14
- /ALIGN qualifier
 - START/PROCESSOR command, *System Management*, 3-37
- /ALL, *Crash Dump Analyzer*, 2-4, 2-5
- ALL block, *RMS-11 Macro*, 2-7, 5-71 to 5-72,
 5-78, 5-102, 5-108, 5-116; *RMS-11 Intro*,
 4-8
- chaining to FAB, *RMS-11 Macro*, 2-11

ALL block (cont'd.)

- initializing, *RMS-11 Macro*, 2-9
 - summary, *RMS-11 Macro*, 6-2
 - ALL command
 - See ALLOCATE command
 - All devices switch
 - See /ADV
 - /ALL keyword
 - ACTIVE command, *MCR*, 3-8
 - ASN command, *System Management*, 8-18
 - ASSIGN command, *MCR*, 3-21
 - DEFINE LOGICALS command, *MCR*, 3-57
 - DFL command, *System Management*, 8-18
 - ALLOCATE CHECKPOINT SPACE command,
 MCR, 3-6
 - /BLKS keyword, *MCR*, 3-6
 - brief description, *MCR*, 1-5
 - examples, *MCR*, 3-7
 - format, *MCR*, 3-6
 - Allocate Checkpoint Space command
 - See ACS command
 - ALLOCATE command, *MCR*, 3-10; *DCL*,
 5-10, 5-11, 5-41 to 5-43, 9-2
 - allocating private device, *MCR*, 2-12
 - brief description, *MCR*, 1-7
 - examples, *MCR*, 3-11
 - format, *MCR*, 3-10
 - keywords
 - /TERM, *MCR*, 3-10
 - /TYPE, *MCR*, 3-10
 - parameters, *MCR*, 3-10
 - /TYPE qualifier, *Batch and Queue*, 3-13
- Allocate Device Transaction Block, *System Management*, 10-40
- ALLOCATION
 - RMSDES utility
 - area section, *RMS-11 Utilities*, 2-44
 - file section, *RMS-11 Utilities*, 2-31
- Allocation, *RMS-11 User's Guide*, 1-19
- indexed files, *RMS-11 User's Guide*, 6-22
- DEQ, *RMS-11 User's Guide*, 6-26
- initial, *RMS-11 User's Guide*, 6-22
- relative files, *RMS-11 User's Guide*, 4-3
- DEQ, *RMS-11 User's Guide*, 4-4
- initial, *RMS-11 User's Guide*, 4-3
- RMSDEF utility
 - data, *RMS-11 Utilities*, A-16
 - file, *RMS-11 Utilities*, A-14
- RMSDES utility
 - areas, *RMS-11 Utilities*, 2-10, 2-25
- RMSDSP utility
 - displaying, *RMS-11 Utilities*, 5-4

- Allocation (cont'd.)
 - sequential files, *RMS-11 User's Guide*, 3-4
 - DEQ, *RMS-11 User's Guide*, 3-4
 - initial, *RMS-11 User's Guide*, 3-4
- /ALLOC keyword
 - USER FILE DIRECTORY command, *MCR*, 3-208
- /ALL qualifier
 - SHOW ASSIGNMENTS command, *System Management*, 8-18
 - SHOW LOGICALS command, *System Management*, 8-18
- \$ALOC1 routine, *Writing I/O Driver*, 7-8
- \$ALOCB routine, *Writing I/O Driver*, 7-8
- /AL option
 - QUE /STA command, *System Management*, 3-37
- /ALO switch
 - BAD utility, *Utilities*, 2-2
 - <ALPHAN> symbol, *Indirect*, 2-10
- ALSCT subroutine, *Task Builder*, 5-70 to 5-73
- /AL subswitch
 - VFY utility, *Utilities*, 14-4
- \$ALSVB (Allocate small virtual block), *System Library*, 8-26
- /AL switch, *Task Builder*, 10-6
- ALT command
 - See also ALTER command
 - VMR
 - definition, *System Management*, 5-8
 - example, *System Management*, 5-8
 - format, *System Management*, 5-8
 - parameters, *System Management*, 5-8
 - /PRI keyword, *System Management*, 5-8
- ALTER command, *MCR*, 3-12
 - brief description, *MCR*, 1-6
 - examples, *MCR*, 3-13
 - format, *MCR*, 3-12
 - keywords
 - /PRI, *MCR*, 3-12
 - /RPRI, *MCR*, 3-12
 - /TERM, *MCR*, 3-12
 - parameters, *MCR*, 3-12
 - VMR
 - See ALT command
- Alternate index
 - See Index
- Alternate index (RMSIFL), *RMS-11 Utilities*, 3-11 to 3-12
- Alternate key, *RMS-11 User's Guide*, 1-7, 1-11; *RMS-11 Intro*, 3-7
- Alternate key (cont'd.)
 - RMSDEF utility
 - defining, *RMS-11 Utilities*, A-1
 - RMSIFL utility
 - allocating file space, *RMS-11 Utilities*, 3-13
 - sorting, *RMS-11 Utilities*, 3-11
- Alternate key file (RMSIFL)
 - device allocation, *RMS-11 Utilities*, 3-7
- Alter Priority directive, *Executive*, 5-15
 - support needed for ALTER command, *MCR*, 3-12
 - support required for ABORT command, *MCR*, 3-2
- <ALTMOD> symbol, *Indirect*, 2-10
- ALTMODE key
 - EDI editor, *Utilities*, 7-17
 - using to terminate command, *MCR*, 1-3
- ALTP\$ directive, *Executive*, 5-15
 - See Alter Priority directive
- ALUN\$ directive, *Executive*, 5-17
 - ASSIGN command, *MCR*, 3-14
 - assigning LUN at run time, *MCR*, 2-9
 - example, *I/O Drivers*, 1-18
 - LUN assignment, *I/O Drivers*, 1-4
 - summary, *I/O Operations*, F-1
- ALUN\$ macro, *I/O Drivers*, 1-15, 1-17
- \$ALVRT (Allocate virtual memory), *System Library*, 8-23
- AM11-K multiple gain multiplexer, *I/O Drivers*, 13-2
- AMA argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
- American National Standards Institute
 - See ANSI
- American Standard Code for Information Interchange
 - See ASCII
- Ampersand (&)
 - logical AND operator, *MACRO-11*, 2-4
 - special character in *MACRO-11*, *MACRO-11*, 2-2
 - special meaning within .IF DF/NDF conditional, *MACRO-11*, 5-45
- Analysis listings, *Crash Dump Analyzer*, 3-1 to 3-46
 - interpreting, *Crash Dump Analyzer*, 4-1
- Analysis routines switch
 - See /ALL
- Analysis switches, *Crash Dump Analyzer*, 2-3 to 2-7

ANALYZE/CRASH_DUMP command, *Crash Dump Analyzer*, 1-7
 error messages, *Crash Dump Analyzer*, A-1
 examples, *Crash Dump Analyzer*, 2-20
 format, *Crash Dump Analyzer*, 2-11
 input to, *Crash Dump Analyzer*, 2-12
 qualifiers, *Crash Dump Analyzer*, 2-12 to 2-20
 specification, *Crash Dump Analyzer*, 2-12
 ANALYZE/ERROR_LOG command
 See also RPT
 command line, *Error Logging*, 3-3
 defaults, *Error Logging*, 3-3
 MCR and DCL equivalents, *Error Logging*, 3-1
 qualifiers, *Error Logging*, 3-5
 ANALYZE command
 ANALYZE/CRASH_DUMP, *DCL*, 9-2 to 9-3
 ANALYZE/MEDIA, *DCL*, 5-11, 5-18 to 5-23, 9-3
 /ANCILLARY_PROCESSOR qualifier, *Task Builder*, 11-10
 ANCILLARY CONTROL DRIVER command, *MCR*, 3-4
 brief description, *MCR*, 1-5
 examples, *MCR*, 3-5
 format, *MCR*, 3-4
 functions, *MCR*, 3-4
 Ancillary Control Processor, *MCR*, 3-60, 3-108
 See also ACP
 Files-11, *MCR*, 3-111, 3-160
 list of directories, *MCR*, 3-81, 3-89, 3-114
 multiple file systems, *MCR*, 3-109
 for foreign files, *MCR*, 3-114, 3-121
 Magnetic Tape, *MCR*, 3-109
 AND operator
 special meaning within .IF DF/NDF conditional, *MACRO-11*, 5-45
 summary, *MACRO-11*, 2-4
 ANSI, *RMS-11 Macro*, 3-2
 standard for Files-11 magnetic tapes, *MCR*, 2-1
 standard for file specifications, *MCR*, 1-4
 ANSI file name, *DCL*, 1-15
 /ANSI keyword
 SET command, *MCR*, 3-158
 SET command (VMR), *System Management*, 5-51
 ANSI magtape, *RMS-11 Macro*, 3-2, 5-20, 5-37, 5-70, 5-88, 5-97, 5-103
 ANSI-standard tape
 RMSBCK utility, *RMS-11 Utilities*, 6-1, 6-8
 RMSDSP utility, *RMS-11 Utilities*, 5-3
 ANSI tape standard, *I/O Operations*, G-1
 Answer speed
 TTDRV
 determining for modem, *I/O Drivers*, 2-84
 Apostrophe
 See Single quotation mark
 Apostrophe operator (')
 See Operator
 APPEND/ERROR_LOG command, *Error Logging*, 2-11
 See also /APPEND switch
 APPEND command, *DCL*, 4-63 to 4-64, 9-4
 Append command
 EDI editor, *Program Development*, 2-16
 Append file open function, *I/O Operations*, 2-14
 /APPEND qualifier
 BRU utility, *Utilities*, 3-10
 /APPEND switch
 DSC utility, *Utilities*, 6-8
 ELI, *Error Logging*, 2-11
 See also APPEND/ERROR_LOG command
 DELETE subswitch, *Error Logging*, 2-11
 Append-to-file operation
 subpacket information, *Error Logging*, 4-65
 Application, *RMS-11 User's Guide*, 1-13, 2-3; *Introduction*, 6-2
 designing, *RMS-11 User's Guide*, 2-1, 2-2, 2-4, 2-5, 2-10, 8-1
 optimization, *RMS-11 User's Guide*, 2-11
 /APPLICATIONS_PROCESSOR processor type, *System Management*, 3-20
 APR, *RMS-11 User's Guide*, 8-3; *Task Builder*, 2-16 ; *Writing I/O Driver*, 1-2, 1-3
 and memory-resident overlays, *RMS-11 User's Guide*, 8-6
 changing mapping, *Executive*, 5-152
 getting information, *Executive*, 5-152
 specifying
 example, *Task Builder*, 5-7
 supervisor mode, *RMS-11 User's Guide*, 8-7; *Task Builder*, 8-2
 /AP switch
 PIP utility, *Utilities*, 12-8

- /AP switch (cont'd.)
 - RMSCNV utility, *RMS-11 Utilities*, 4-5, 4-7, 4-13, 4-15
- Area, *RMS-11 User's Guide*, 6-10, 8-3
 - See also ALL block
 - contiguity, *RMS-11 User's Guide*, 6-13
 - definition, *RMS-11 User's Guide*, 5-2
 - multiarea indexed files, *RMS-11 User's Guide*, 6-12
 - RMSDEF utility
 - defining, *RMS-11 Utilities*, A-13
 - RMSDES utility, *RMS-11 Utilities*, 2-10, 2-25
 - defining, *RMS-11 Utilities*, 2-1, 2-42
 - and BUCKET_SIZE attribute, *RMS-11 Utilities*, 2-32
 - and DATA_AREA attribute, *RMS-11 Utilities*, 2-40
 - and INDEX_AREA attribute, *RMS-11 Utilities*, 2-41
 - and LEVEL1_INDEX_AREA attribute, *RMS-11 Utilities*, 2-41
 - and SIZE attribute, *RMS-11 Utilities*, 2-36
 - by default, *RMS-11 Utilities*, 2-43
 - explicitly, *RMS-11 Utilities*, 2-43
 - defining by default, *RMS-11 Utilities*, 2-17, 2-38
 - CREATE command, *RMS-11 Utilities*, 2-8, 2-28
 - SET ALL command, *RMS-11 Utilities*, 2-14
 - defining explicitly, *RMS-11 Utilities*, 2-17
 - numbering, *RMS-11 Utilities*, 2-8, 2-28, 2-43
 - single-area indexed files, *RMS-11 User's Guide*, 6-11
 - Area description
 - obtaining
 - See DISPLAY operation
 - Area extending allocation
 - See EXTEND operation
 - Area information
 - displaying, *RMS-11 Utilities*, 5-4
 - Area number (RMSDEF), *RMS-11 Utilities*, A-16
 - A register, *Debugging*, 2-6, 5-3, 6-2; *XDT*, 2-11
 - Arg1 parameter
 - CALLS
 - calling macro (LADRV), *I/O Drivers*, 12-24
 - macro (K-series), *I/O Drivers*, 13-29
 - ARGCHA routine, *Executive*, 1-13
 - Argument
 - concatenation of
 - example, *MACRO-11*, 6-8
 - macro
 - concatenation of, *MACRO-11*, 6-12
 - register, *Debugging*, 2-6, 5-3, 6-2
 - separator, *Debugging*, 2-4
 - Argument delimiter
 - circumflex (^), *MACRO-11*, 2-3
 - left angle bracket (<), *MACRO-11*, 2-3
 - table of, *MACRO-11*, 2-3
 - Argument separator, *XDT*, 2-10
 - Arithmetic calculations, *Debugging*, 7-1
 - Arithmetic operator, *Indirect*, 2-26
 - See also Operator
 - Array
 - setting for buffered sweep (K-series), *I/O Drivers*, 13-26
 - virtual
 - See Virtual array
 - Arrow keys
 - EDT editor, *Introduction*, 2-6
 - ASCII
 - character set, *MCR*, 3-123
 - data type
 - CFL, *Error Logging*, 5-5
 - displaying, *Debugging*, 4-6
 - operator, *Debugging*, 2-6
 - byte mode, *Debugging*, 4-6; *XDT*, 2-12
 - word mode, *Debugging*, 4-6; *XDT*, 2-12
 - ASCII character set, *MACRO-11*, A-1
 - ASCII character storage techniques, *MACRO-11*, 5-18
 - .ASCII directive, *MACRO-11*, 5-19
 - changes current location counter, *MACRO-11*, 5-31
 - inserting special values with angle brackets, *MACRO-11*, 5-20
 - summary, *MACRO-11*, 5-1
 - ASCII number conversion
 - ASCII to Radix-50 (\$CAT5), *System Library*, 4-8
 - ASCII with blanks to Radix-50 (\$CAT5B), *System Library*, 4-9

- ASCII number conversion (cont'd.)
 - decimal to binary
 - (\$CDTB), *System Library*, 4-4
 - doubleword (.DD2CT), *System Library*, 4-1
 - octal to binary
 - doubleword (.OD2CT), *System Library*, 4-3
 - octal to binary (\$COTB), *System Library*, 4-6
- ASCII stream file
 - RMSCNV utility, *RMS-11 Utilities*, 4-3, 4-8
 - RMSIFL utility, *RMS-11 Utilities*, 3-1
- .ASCIZ directive, *MACRO-11*, 5-21
 - changes current location counter, *MACRO-11*, 5-31
 - inserting special values with angle brackets
 - See *ASCII directive*
 - summary, *MACRO-11*, 5-1
- .ASCPP routine
 - converting UIC to binary, *I/O Operations*, 4-7
- .ASECT directive, *MACRO-11*, 5-39
 - assigns attributes to current location counter, *MACRO-11*, 2-12
 - default characteristics, *MACRO-11*, 5-40
 - special case of .PSECT, *MACRO-11*, 5-39
 - summary, *MACRO-11*, 5-1
 - terminates local symbol block, *MACRO-11*, 2-10
- ASG option, *Task Builder*, 12-8
- ASG TKB option
 - LUN assignment, *I/O Drivers*, 1-4
- .ASK directive, *Indirect*, 2-39
- .ASKN directive, *Indirect*, 2-41
- .ASKS directive, *Indirect*, 2-44
- .ASLUN routine
 - assigning LUN, *I/O Operations*, 4-11, 4-16
- ASN command
 - See also *ASSIGN command*
- MCR
 - /ALL keyword, *System Management*, 8-18
- VMR
 - definition, *System Management*, 5-9
 - examples, *System Management*, 5-10
 - formats, *System Management*, 5-9
 - keywords
 - /GBL, *System Management*, 5-9, 5-10
 - /SYSTEM, *System Management*, 5-9, 5-10
- ASN command
 - VMR (cont'd.)
 - parameters, *System Management*, 5-9
- ASR-33 teletypewriter, *I/O Drivers*, 2-4
- ASR-35 teletypewriter, *I/O Drivers*, 2-4
- Assembler directive
 - See *Directive*
- Assembling the Executive and Drivers section, *System Generation*, 3-70 to 3-71
- Assembly, *RMS-11 Macro*, 2-20
 - language, *Program Development*, 1-4 to 1-6
 - See also *MACRO-11*
- listing
 - examining at a terminal, *Program Development*, 3-6
 - formatting, *Program Development*, 2-6
 - generating, *Program Development*, 3-4 to 3-5
 - page break, *Program Development*, 2-6
 - printing, *Program Development*, 3-8
 - spooling, *Program Development*, 3-8
 - table of contents, *Program Development*, 2-6
 - terminal format, *Program Development*, 2-6
- ASSIGN/QUEUE command, *System Management*, 3-29
 - See also *ASSIGN command*
 - assigning batch queues, *System Management*, 3-13
 - assigning print queues, *System Management*, 3-9
- ASSIGN/REDIRECT command, *System Management*, 9-9
 - See also *ASSIGN command*
 - format, *System Management*, 9-1
 - parameters, *System Management*, 9-2
 - redirecting CO, *System Management*, 9-1
- Assign Channel directive, *Executive*, 5-12
- ASSIGN command, *MCR*, 3-14; *DCL*, 5-15, 5-24 to 5-30, 9-4 to 9-5
 - and logical devices, *MCR*, 2-11
 - and pseudo devices, *MCR*, 2-10
 - ASSIGN/QUEUE, *DCL*, 9-5
 - ASSIGN/REDIRECT, *DCL*, 5-31 to 5-33, 9-5
 - ASSIGN/TASK, *DCL*, 7-42 to 7-43, 9-5
 - brief description, *MCR*, 1-5
 - examples, *MCR*, 3-22
 - formats, *MCR*, 3-18, 3-19, 3-21

ASSIGN command (cont'd.)

in logical name translation, *I/O Operations*, 4-9

keywords

/ALL, MCR, 3-21
/FINAL, MCR, 3-19
/GBL, MCR, 3-19, 3-21
/GR, MCR, 3-19, 3-20, 3-21
/LOGIN, MCR, 3-19, 3-20
/SYSTEM, MCR, 3-19, 3-21
/TERM, MCR, 3-19, 3-20, 3-21

LUN

assignment, *I/O Drivers*, 1-4
redirection, *I/O Drivers*, 1-3

VMR

See ASN command

Assign LUN directive, *Executive*, 5-17

ASSIGN command, MCR, 3-14

assigning LUN at run time, MCR, 2-9

Assignment

logical

description, MCR, 2-11
global, MCR, 2-11
group, MCR, 2-11
local, MCR, 2-11
login, MCR, 2-11
task, MCR, 2-11

logical device, MCR, 2-11, 3-14

logical name, MCR, 3-15, 3-53

global, MCR, 3-14
group, MCR, 3-14
local, MCR, 3-14
login, MCR, 3-14

Assignment statement, *MACRO-11*, 2-6

See also Direct assignment statement

double equal sign (=), *MACRO-11*, 2-6, 2-7

double equal sign colon (=:), *MACRO-11*, 2-7

equal sign (=), *MACRO-11*, 2-6, 2-7

equal sign colon (=:), *MACRO-11*, 2-7

requirements for, *MACRO-11*, 2-7

Assign table dump, *Crash Dump Analyzer*, 3-1, 3-15

logical device names, *Crash Dump Analyzer*, 3-15

physical device names, *Crash Dump Analyzer*, 3-15

/AS switch

DMP utility, *Utilities*, 5-3

AST, *Executive*, 2-5, 2-7; *I/O Drivers*, 1-9, 1-10 ; *Writing I/O Driver*, 1-15

AST (cont'd.)

blocking, *I/O Drivers*, 1-11

caused by CTRL/Z, MCR, 2-14

declared by Executive, *System Management*, 1-7

disabling recognition, *Executive*, 5-68

enabling recognition, *Executive*, 5-82

interrupting attached task, MCR, 2-16

interrupt routine, *I/O Drivers*, 1-10

IO.ATA function (TTDRV), *I/O Drivers*, 2-22

parity error, *System Management*, 1-7

processing, *I/O Drivers*, 1-11

queue, *I/O Drivers*, 1-11

recognition

disable, *I/O Drivers*, 1-11

enable, *I/O Drivers*, 1-11

service

exit routine, *I/O Drivers*, 1-11

termination, *I/O Drivers*, 1-24

service routine, *Executive*, 2-8; *I/O Operations*, 2-42

FORTTRAN, *Executive*, 1-19

specifying, *Executive*, 5-236

terminating, *Executive*, 5-19

service routine for, MCR, 3-2

specifying

Floating Point Processor exception, *Executive*, 5-229

for CLI, *Executive*, 5-211

power recovery, *Executive*, 5-239

receive-by-reference, *Executive*, 5-263

receive data, *Executive*, 5-253

requested exit, *Executive*, 5-255

unsolicited input (TTDRV), *I/O Drivers*, 2-20

using event flag, *I/O Drivers*, 1-11

Ast2 parameter, *I/O Drivers*, 2-12

IO.ATA function (TTDRV), *I/O Drivers*, 2-24

ast addr parameter

device-specific (CRDRV), *I/O Drivers*, 9-3

Asterisk (*)

See also Wildcard character

EDI editor, *Utilities*, 7-8

in cross-reference table, *MACRO-11*, 7-15

multiplication operator, *MACRO-11*, 2-4

special character in *MACRO-11*,

MACRO-11, 2-2

Asterisk (*)

EDI editor, *Program Development*, 2-9

PIP utility, *Program Development*, 3-9

Asterisk (*) (cont'd.)

use as wildcard character, *MCR*, 2-6

Asterisk separator (*), *Debugging*, 2-4

Ast parameter

general (TTDRV), *I/O Drivers*, 2-12

I/O completion, *I/O Drivers*, 1-36

IO.ATA function (TTDRV), *I/O Drivers*, 2-23

IO.ATT function, *I/O Drivers*, 1-27

IO.CCO function (TTDRV), *I/O Drivers*, 2-26

IO.DET function, *I/O Drivers*, 1-28

IO.EIO function (TTDRV), *I/O Drivers*, 2-28

IO.GTS function (TTDRV), *I/O Drivers*, 2-35

IO.HNG function (TTDRV), *I/O Drivers*, 2-38

IO.KIL function, *I/O Drivers*, 1-30

IO.RAL function (TTDRV), *I/O Drivers*, 2-38

IO.RLB function, *I/O Drivers*, 1-30

IO.RNE function (TTDRV), *I/O Drivers*, 2-40

IO.RPR function (TTDRV), *I/O Drivers*, 2-43

IO.RST function (TTDRV), *I/O Drivers*, 2-45

IO.RTT function (TTDRV), *I/O Drivers*, 2-47

IO.RVB function, *I/O Drivers*, 1-31

IO.SMC function (TTDRV), *I/O Drivers*, 2-62

IO.WAL function (TTDRV), *I/O Drivers*, 2-49

IO.WBT function (TTDRV), *I/O Drivers*, 2-51

IO.WLB function, *I/O Drivers*, 1-32

IO.WVB function, *I/O Drivers*, 1-33

IO.XCL function (XEDRV), *I/O Drivers*, 10-19

IO.XIN function (XEDRV), *I/O Drivers*, 10-20

IO.XOP function (XEDRV), *I/O Drivers*, 10-6

IO.XRC function (XEDRV), *I/O Drivers*, 10-16

IO.XSC function (XEDRV), *I/O Drivers*, 10-7

IO.XTL function (XEDRV), *I/O Drivers*, 10-21

Ast parameter (cont'd.)

IO.XTM function (XEDRV), *I/O Drivers*, 10-12

QIO\$ basic syntax, *I/O Drivers*, 1-5, 1-9

SF.GMC function (TTDRV), *I/O Drivers*, 2-53

standard function (UNIBUS switch driver), *I/O Drivers*, 14-3

AST Service Exit directive, *Executive*, 5-19

ASTX\$\$ directive, *Executive*, 5-19; *I/O Drivers*, 1-11

ASTX\$\$ macro, *I/O Drivers*, 1-15, 1-24

\$ASUMR routine, *Writing I/O Driver*, 7-9

calling from driver, *Writing I/O Driver*, 7-4

Asynchronous I/O

XEDRV, *I/O Drivers*, 10-24

Asynchronous operation, *RMS-11 User's Guide*, 8-2, 8-4, 8-7 to 8-8

I/O techniques, *RMS-11 User's Guide*, 2-17

indexed files, *RMS-11 User's Guide*, 7-8

relative files, *RMS-11 User's Guide*, 4-14

sequential files, *RMS-11 User's Guide*, 3-14

Asynchronous system trap

See AST

Asynchronous terminal line, *Utilities*, C-1

AT., *Indirect*, 2-2

/ATL, *Crash Dump Analyzer*, 2-3, 2-5

ATL command, *MCR*, 3-24

See ACTIVE TASK LIST command
secondary pool usage, *System Management*, 8-17

ATLNK.CMD

saving, *Task Builder*, 11-55

ATRG\$ directive, *Executive*, 5-22

At sign (@), *Indirect*, 1-1, 2-1, 2-2

ODT, *Program Development*, 5-8

At sign (@)

indirect command file, *Task Builder*, 1-12

special character in MACRO-11, *MACRO-11*, 2-2

used in absolute addressing mode,
MACRO-11, 4-6

used in autodecrement deferred mode,
MACRO-11, 4-4

used in autoincrement deferred mode,
MACRO-11, 4-3

used in index deferred mode, *MACRO-11*, 4-5

used in register deferred mode, *MACRO-11*, 4-3

At sign (@) (cont'd.)

used in relative deferred addressing mode,
MACRO-11, 4-8

At sign command (@), *Debugging*, 2-5, 4-4;
XDT, 2-11

Attach mode, *Indirect*, 2-53

Attach Region directive, *Executive*, 5-22

Attribute, *RMS-11 User's Guide*, 1-2, 1-18;
RMS-11 Intro, 3-15

block spanning, *RMS-11 User's Guide*, 1-19

bucket size, *RMS-11 User's Guide*, 1-19

contiguity, *RMS-11 User's Guide*, 1-19

file allocation, *RMS-11 User's Guide*, 1-19
file organization, *RMS-11 User's Guide*,
1-18

file specification, *RMS-11 User's Guide*,
1-18

keys, *RMS-11 User's Guide*, 1-19

MRN, *RMS-11 User's Guide*, 1-19

placement control, *RMS-11 User's Guide*,
1-19

protection, *RMS-11 User's Guide*, 1-18

record format, *RMS-11 User's Guide*, 1-18

record-output handling, *RMS-11 User's*
Guide, 1-19

record size, *RMS-11 User's Guide*, 1-18

RMSDES utility, *RMS-11 Utilities*, 2-29

ALLOCATION

area section, *RMS-11 Utilities*, 2-44

file section, *RMS-11 Utilities*, 2-31

BLOCK_SPAN, *RMS-11 Utilities*, 2-37

BUCKET_SIZE

area section, *RMS-11 Utilities*,
2-43, 2-45

file section, *RMS-11 Utilities*, 2-32

CARRIAGE_CONTROL, *RMS-11*
Utilities, 2-37

CHANGES, *RMS-11 Utilities*, 2-40

clearing, *RMS-11 Utilities*, 2-6, 2-22,
2-25

individual values, *RMS-11 Utilities*,
2-26

CLUSTER_SIZE, *RMS-11 Utilities*,
2-31

CONTIGUOUS

area section, *RMS-11 Utilities*, 2-46

file section, *RMS-11 Utilities*, 2-35

CONTROL_FIELD_SIZE, *RMS-11*
Utilities, 2-37

DATA_AREA, *RMS-11 Utilities*, 2-40

DATA_FILL, *RMS-11 Utilities*, 2-40

displaying, *RMS-11 Utilities*, 2-15, 2-26

Attribute

RMSDES utility

displaying (cont'd.)

individual values, *RMS-11 Utilities*,
2-26

sections, *RMS-11 Utilities*, 2-27

DUPLICATES, *RMS-11 Utilities*, 2-40,
2-42, 2-44

EXTENSION

area section, *RMS-11 Utilities*, 2-45

file section, *RMS-11 Utilities*, 2-32

FILE PLACEMENT

system section, *RMS-11 Utilities*,
2-30

FORMAT, *RMS-11 Utilities*, 2-36

INDEX_AREA, *RMS-11 Utilities*, 2-41

INDEX_FILL, *RMS-11 Utilities*, 2-41

informational, *RMS-11 Utilities*, 2-1,
2-17, 2-29

LEVEL1_INDEX_AREA, *RMS-11*
Utilities, 2-41

MAGTAPE_BLOCK_SIZE, *RMS-11*
Utilities, 2-34

MAX_RECORD_NUMBER, *RMS-11*
Utilities, 2-34

NAME

file section, *RMS-11 Utilities*, 2-31

key section, *RMS-11 Utilities*, 2-38

NULL_KEY, *RMS-11 Utilities*, 2-39

ORGANIZATION, *RMS-11 Utilities*,
2-31

OWNER, *RMS-11 Utilities*, 2-34

POSITION, *RMS-11 Utilities*, 2-46

PROTECTION, *RMS-11 Utilities*, 2-33

resetting, *RMS-11 Utilities*, 2-21

REWIND_MAGTAPE, *RMS-11 Utilities*,
2-34

RMS-11, *RMS-11 Utilities*, 2-1, 2-17,
2-29

SEG0_POSITION, *RMS-11 Utilities*,
2-42

SEGN_LENGTH, *RMS-11 Utilities*,
2-42

SEGN_POSITION, *RMS-11 Utilities*,
2-42

setting, *RMS-11 Utilities*, 2-13

from a data file, *RMS-11 Utilities*,
2-25

from a description file, *RMS-11*
Utilities, 2-24

individual values, *RMS-11 Utilities*,
2-21

- Attribute
 - RMSDES utility (cont'd.)
 - setting sections, *RMS-11 Utilities*, 2-21
 - SIZE, *RMS-11 Utilities*, 2-36
 - SOURCE, *RMS-11 Utilities*, 2-30
 - SUPERSEDE, *RMS-11 Utilities*, 2-35
 - TARGET, *RMS-11 Utilities*, 2-30
 - TYPE, *RMS-11 Utilities*, 2-38
 - Attribute buffer
 - F11ACP
 - address, *I/O Operations*, H-9
 - Attribute list
 - F11ACP, *I/O Operations*, H-7
 - Attribute size, *I/O Operations*, H-8
 - Attribute type
 - F11ACP, *I/O Operations*, H-7
 - file characteristic, *I/O Operations*, H-7
 - file name, *I/O Operations*, H-8
 - file owner, *I/O Operations*, H-7
 - file protection, *I/O Operations*, H-7
 - file type, *I/O Operations*, H-8
 - placement control, *I/O Operations*, H-8
 - read file header, *I/O Operations*, H-8
 - record I/O area, *I/O Operations*, H-7
 - revision number, *I/O Operations*, H-8
 - statistics block, *I/O Operations*, H-8
 - version number, *I/O Operations*, H-8
 - Audit trail
 - See also SLP utility
 - /AU switch
 - SLP utility, *Utilities*, 13-15
 - Autobaud detection, MCR, 3-157
 - Autobaud speed detection
 - TTDRV, *I/O Drivers*, 2-84
 - Autocall
 - enabling for modem (TTDRV), *I/O Drivers*, 2-55
 - Autoconfigure, *System Generation*, 5-33;
 - System Management*, 4-1
 - definition, *System Generation*, 1-8
 - description, *System Generation*, 3-6
 - device support, *System Generation*, D-1
 - hardware support, *System Generation*, 3-10
 - overriding, *System Generation*, 3-9, 3-19
 - remark, *System Generation*, 3-9
 - restriction, *System Generation*, 3-7, 3-12
 - sample output, *System Generation*, 3-7
 - SYSGEN question, *System Generation*, 3-6, 3-19
 - overriding, *System Generation*, 3-9
 - Autoload, *Task Builder*, 4-1
 - indicator, *Task Builder*, 4-2, 4-6
 - Autoload (cont'd.)
 - path loading, *Task Builder*, 4-4
 - specifying, *Task Builder*, 4-3
 - Autoload vector, *Task Builder*, 3-22, 3-25, 4-5
 - to 4-7, B-20 to B-21
 - I- and D-space task, *Task Builder*, 7-10
 - overlaid shared region, *Task Builder*, 5-14
 - AUTO module, *Task Builder*, 4-15, 4-16, 5-61
 - AUTO option
 - INI keyword /BAD, MCR, 3-85
 - AUTOT module, *Task Builder*, 4-16, 5-61
 - Auxiliary buffer
 - XEDRV
 - transmitting, *I/O Drivers*, 10-12
 - a variable, *Debugging*, 2-1; XDT, 2-10
 - AVERAGE.FTN source code, *Program Development*, 7-3
 - /AVO keyword
 - SET command, MCR, 3-158
 - SET command (VMR), *System Management*, 5-51
-
- ## B
-
- Backing up file, *RMS-11 User's Guide*, 1-10, 1-12
 - Backslash (\)
 - ODT, *Program Development*, 5-5
 - Backslash (\)
 - cannot take forward reference, *MACRO-11*, 6-8
 - cannot use with relative symbol, *MACRO-11*, 6-8
 - special character in *MACRO-11*, *MACRO-11*, 2-2
 - used to pass numeric argument as symbol, *MACRO-11*, 6-8
 - Backslash operator (\)
 - See also Operator
 - BACK SPACE key, DCL, 3-13; *Introduction*, 1-7
 - /BACKSPACE qualifier
 - START/PROCESSOR command, *System Management*, 3-37
 - BACKUP.ERR, *Error Logging*, 2-3
 - /BACKUP_SET qualifier
 - BRU utility, *Utilities*, 3-11
 - Backup and Restore Utility
 - See BACKUP command
 - See BRU utility
 - BACKUP command, DCL, 5-91 to 5-130, 9-5 to 9-7

BACKUP command (cont'd.)

- backing up
 - Files-11 volume, *DCL*, 5-92
 - foreign volume, *DCL*, 5-92
 - description, *System Management*, 1-14
 - /INITIALIZE qualifier, *DCL*, 5-92
 - /MOUNTED qualifier, *DCL*, 5-92
- restoring
 - Files-11 volume, *DCL*, 5-92
 - foreign volume, *DCL*, 5-92
- Backup copy
 - generated system, *System Generation*, 4-4
- Backup date file
 - RMSRST utility, *RMS-11 Utilities*, 7-8, 7-10
- Backup file
 - error log, *Error Logging*, 1-4, 2-1, 2-12
 - ELI defaults, *Error Logging*, 2-3
- BACKUP function
 - EDT editor, *Introduction*, 2-7
- Backup operation
 - See also Online backup
- /BACKUP switch
 - ELI, *Error Logging*, 2-12
- Backus-Naur Form metalanguage, *System Management*, 18-8
- Bad block, *DCL*, 5-11, 5-18 to 5-23, 5-68
 - See also RCT task
 - descriptor file, *MCR*, 3-86
 - detection, *System Management*, 13-3
 - handling of MSCP disks, *System Management*, 13-3
 - information, *Utilities*, 6-8
 - initializing, *MCR*, 3-85, 3-86
 - listing with IOX, *System Management*, 12-16
- locating
 - BAD utility, *Utilities*, 2-1
 - FMT utility, *Utilities*, 9-1
 - VFY utility, *Utilities*, 14-6
- notification of DUDRV, *System Management*, 13-4
- processing, *MCR*, 3-85
 - BAD utility, *Utilities*, 2-7
 - BRU utility, *Utilities*, 3-29
- removing from IOX test, *System Management*, 12-16
- replacing, *System Management*, 13-1, 13-5
 - partial, *System Management*, 13-6
- revectoring, *System Management*, 13-3, 13-6

Bad block (cont'd.)

- specifying in IOX, *System Management*, 12-16
- Bad Block Locator Utility
 - See BAD utility
- Bad Block Replacement Control Task
 - See RCT task
- BADBLOCKS command
 - IOX, *System Management*, 12-16
 - displaying bad blocks, *System Management*, 12-16
 - examples, *System Management*, 12-16
 - specifying individual blocks, *System Management*, 12-16
 - specifying range of blocks, *System Management*, 12-16
 - use, *System Management*, 12-16
- /BADBLOCKS qualifier
 - INITIALIZE command
 - Shadow Recording preparation, *System Management*, 16-2
- Badge Reader hint
 - TTDRV, *I/O Drivers*, 2-84
- /BAD keyword
 - INI command
 - Shadow Recording preparation, *System Management*, 16-2
- INITVOLUME command, *MCR*, 3-85
 - options, *MCR*, 3-85
 - AUTO, *MCR*, 3-85
 - MAN, *MCR*, 3-85
 - NOAUTO, *MCR*, 3-85
 - OVR, *MCR*, 3-86
- /BAD qualifier
 - BRU utility, *Utilities*, 3-12, 3-29
 - option
 - AUTOMATIC, *Utilities*, 3-12
 - MANUAL, *Utilities*, 3-12
 - OVERRIDE, *Utilities*, 3-12
 - options, *Utilities*, 3-29
- Bad sector
 - track (disk driver), *I/O Drivers*, 4-11
- /BAD switch
 - DSC utility, *Utilities*, 6-8
 - FMT utility, *Utilities*, 9-3
 - options, *Utilities*, 9-3
- BAD utility
 - bad block descriptor entry, *Utilities*, 2-8
 - bad block processing, *Utilities*, 2-7
 - command line, *Utilities*, 2-1, A-1
 - device verification, *Utilities*, 2-7

- BAD utility (cont'd.)
 - indirect command file, *Utilities*, 2-6
 - INI command, *Utilities*, 2-8
 - interaction with RCT, *System Management*, 13-1
 - media failures and, *System Management*, 11-2
 - messages, *Utilities*, 2-9
 - error, *Utilities*, 2-10
 - informational, *Utilities*, 2-10
 - programming consideration, *Utilities*, 2-9
 - running with EXECUTE command
 - IOX, *System Management*, 12-27
 - switches
 - /ALO, *Utilities*, 2-2
 - /LI, *Utilities*, 2-4
 - /LIST, *System Management*, 16-2
 - /MAN, *Utilities*, 2-4
 - /OVR, *Utilities*, 2-5
 - /PAT, *Utilities*, 2-5
 - /RETRY, *System Management*, 13-1; *Utilities*, 2-5
 - /UPD, *Utilities*, 2-5
- /BA function
 - QUE /SP command, *System Management*, 3-20
 - interactive use, *System Management*, 3-11
- :BA option
 - QUE /STA command, *System Management*, 3-37
- Baseline system
 - definition, *System Generation*, 1-8
 - description, *System Generation*, 3-12
 - device configuration, *System Generation*, 3-13
 - terminal configuration, *System Generation*, 3-13
- Base priority for nonprivileged tasks, *System Management*, 8-10
- /BASIC qualifier, *Task Builder*, 11-11
- <BASLIN> symbol, *Indirect*, 2-10
- /BA switch
 - DMP utility, *Utilities*, 5-3
- BATCH.TXT file
 - description, *System Management*, 1-11
- /BATCH_PROCESSOR processor type, *System Management*, 3-20
- /BATCH_PROCESSOR qualifier
 - INITIALIZE command
 - interactive use, *System Management*, 3-11
- /BATCH_QUEUE qualifier
 - INITIALIZE/PROCESSOR command, *System Management*, 3-20
- Batch file
 - example, *Batch and Queue*, 3-2
- Batch job
 - contents of, *Batch and Queue*, 3-1
 - defined, *Batch and Queue*, 3-1
 - queuing, *Batch and Queue*, 3-15
 - stopping, *DCL*, 4-92
- Batch job information file
 - See BATCH.TXT file
- Batch log, *Introduction*, 4-7
- Batch log file, *Batch and Queue*, 3-19
 - example, *Batch and Queue*, 3-21, 3-22
 - line identifiers
 - DATA, *Batch and Queue*, 3-20
 - SKIP, *Batch and Queue*, 3-20
 - TERM, *Batch and Queue*, 3-20
- Batch processing, *System Management*, 3-1; *DCL*, 1-23; *Introduction*, 4-1, 4-5 to 4-7
- Batch processor
 - initializing, *System Management*, 3-11
 - installation, *System Management*, 3-10
 - installing, *System Management*, 3-11
 - SYSGEN question, *System Generation*, 3-28
- Batch processor prototype task
 - See BPR
- /BATCH qualifier
 - SHOW QUEUE command, *Batch and Queue*, 2-14
- Batch queue, *System Management*, 3-17
 - assigning, *System Management*, 3-13
 - initializing, *System Management*, 3-12
- Batch-specific command
 - list, *Batch and Queue*, 3-4
- Baud rate
 - automatic detection of, *MCR*, 3-157
 - list (TTDRV), *I/O Drivers*, 2-60
 - receive, *MCR*, 3-184
 - remote terminal
 - setting, *MCR*, 3-181; *System Management*, 5-63
 - setting, *MCR*, 3-184
 - split
 - modem support (TTDRV), *I/O Drivers*, 2-84
 - transmit, *MCR*, 3-184
 - valid, *MCR*, 3-184
- BC, *System Management*, 18-30

- BCD print radix
 - CFL, *Error Logging*, 5-5
- B command, *Debugging*, 2-7, 3-1, 3-2; *XDT*, 2-12
 - ODT, *Program Development*, 5-6
- B conditional assembly test, *MACRO-11*, 5-45
 - only comma valid as separator, *MACRO-11*, 5-49
- BCT, *System Management*, 18-31
- BDB pool, *RMS-11 Macro*, 2-7
- /BD switch
 - RMSRST utility, *RMS-11 Utilities*, 7-8, 7-10
- Begin command
 - EDI editor, *Program Development*, 2-13; *Utilities*, 7-18
- .BEGIN directive, *Indirect*, 2-4, 2-46
- Begin-End block, *Indirect*, 2-4
 - beginning, *Indirect*, 2-46
 - ending, *Indirect*, 2-58
- Begin-End block processing
 - terminating, *Indirect*, 2-60
- BEGIN-END statement
 - CFL, *Error Logging*, 5-35
- Bell, *DCL*, 3-22
- B error
 - odd current location counter, *MACRO-11*, 5-31
- BEX argument
 - for .LIST/.NLIST, *MACRO-11*, 5-7
- /BF switch
 - SLP utility, *Utilities*, 13-15
- Bias value, *Debugging*, 2-3
 - Trace program, *Debugging*, 8-3
- BIN argument
 - for .LIST/.NLIST, *MACRO-11*, 5-7
- Binary conversion
 - binary byte to octal
 - (\$CBTMG), *System Library*, 5-10
 - binary date to decimal (\$CBDAT), *System Library*, 5-2
 - binary to signed decimal (\$CBDSG), *System Library*, 5-5
 - binary to signed octal (\$CBOSG), *System Library*, 5-9
 - binary to unsigned decimal (\$CBDMG), *System Library*, 5-3
 - binary to unsigned octal (\$CBOMG), *System Library*, 5-8
 - double-precision binary to decimal
 - (\$CDDMG), *System Library*, 5-6
- Binary conversion (cont'd.)
 - general purpose binary to ASCII (\$CBTA), *System Library*, 5-12
- Binary key
 - 2-byte unsigned, *RMS-11 User's Guide*, 6-5
 - 4-byte unsigned, *RMS-11 User's Guide*, 6-5
- Binary machine code, *Introduction*, 5-5
- Binary operator
 - ampersand (&), *MACRO-11*, 2-4
 - asterisk (*), *MACRO-11*, 2-4
 - exclamation point (!), *MACRO-11*, 2-4
 - minus sign (-), *MACRO-11*, 2-4
 - plus sign (+), *MACRO-11*, 2-4
 - priority, *MACRO-11*, 2-4
 - slash (/), *MACRO-11*, 2-4
 - table of, *MACRO-11*, 2-4
 - use, *MACRO-11*, 2-4
 - used in expressions, *MACRO-11*, 2-14
- Binary output file size switch
 - See /MEMSIZ
- BINARY print radix
 - CFL, *Error Logging*, 5-5
- Binary prompt
 - TTDRV, *I/O Drivers*, 2-14, 2-29, 2-43
- Binary to ASCII conversion
 - UIC, *I/O Operations*, 4-8
- Bit, *RMS-11 Intro*, 2-1
- 22-bit addressing
 - LADRV, *I/O Drivers*, 12-31, 12-32
- Bit Clear
 - See BC
- Bit Clear Test
 - See BCT
- Bit density, *MCR*, 3-87, 3-112
 - diskette, *MCR*, 3-87
 - magnetic tape, *MCR*, 3-87
- Bit extraction unary suffix operator
 - CFL expression, *Error Logging*, 5-11
- Bit map
 - use, *System Management*, 1-7
- Bit Set
 - See BS
- Bit Set Test
 - See BST
- Bit-to-text translation
 - device-level module, *Error Logging*, 4-7
 - user-written module, *Error Logging*, 4-27, 4-33
- Bitwise AND binary operator
 - CFL expression, *Error Logging*, 5-14
- Bitwise complement unary operator
 - CFL expression, *Error Logging*, 5-15

- Bitwise operator
 - CFL expression, *Error Logging*, 5-14, 5-15, 5-16
- Bitwise OR binary operator
 - CFL expression, *Error Logging*, 5-14
- Bitwise XOR binary operator
 - CFL expression, *Error Logging*, 5-15
- /BL, *Crash Dump Analyzer*, 2-8
- Blank
 - ignoring in command line, *I/O Operations*, 7-8
- Blank media requirement, *System Generation*, 2-2
- BLDLAINIT.CMD file
 - pregenerated kit, *System Generation*, 5-49
- .BLK. default program section name, *MACRO-11*, 5-36
- .BLKB directive, *MACRO-11*, 5-31
 - changes current location counter, *MACRO-11*, 5-30
 - preferred way to reserve space, *MACRO-11*, 2-13
 - summary, *MACRO-11*, 5-1
- \$BLKC1 routine, *Writing I/O Driver*, 7-10
- \$BLKC2 routine, *Writing I/O Driver*, 1-17, 7-10
- \$BLKCK routine, *Writing I/O Driver*, 1-17, 7-10
- BLK command
 - See BLOCK command
- Blkh parameter
 - standard function (disk driver), *I/O Drivers*, 4-7
- /BLKMOD keyword
 - SET command, *MCR*, 3-158
 - SET command (VMR), *System Management*, 5-52
- /BLKS keyword
 - ALLOCATE CHECKPOINT SPACE
 - command, *MCR*, 3-6
- .BLKW directive, *MACRO-11*, 5-31
 - preferred way to reserve space, *MACRO-11*, 2-13
 - summary, *MACRO-11*, 5-1
- Block, *RMS-11 User's Guide*, 1-16; *RMS-11 Intro*, 2-3
 - See also Control block
 - access mode, *RMS-11 User's Guide*, 1-20, 3-6; *RMS-11 Intro*, 3-11 to 3-12, 4-7
 - See also Shared access
 - remote, *RMS-11 User's Guide*, B-3
- Block
 - access mode (cont'd.)
 - sequential, *RMS-11 Intro*, 3-12
 - VCN, *RMS-11 Intro*, 3-12
 - allocating, *Utilities*, 14-7
 - bad
 - See Bad block
 - context, *RMS-11 Intro*, 4-7
 - readable block, *RMS-11 Intro*, 4-7
 - writable block, *RMS-11 Intro*, 4-7
 - disk
 - changing default number allocated, *System Management*, 1-8
 - extension
 - overriding default, *System Management*, 1-8
 - locking, *I/O Operations*, 2-16, 2-43
 - enable, *I/O Operations*, 2-15
 - F11ACP, *I/O Operations*, H-10, H-12
 - logical, *RMS-11 Intro*, 2-3; *I/O Operations*, 5-2
 - operations, *RMS-11 Intro*, 4-7
 - processing, *RMS-11 Intro*, 4-1, 4-7
 - reading
 - See READ operation
 - recovering lost, *Utilities*, 14-6
 - size (tape driver), *I/O Drivers*, 6-14
 - nolabel tape, *I/O Drivers*, 6-17
 - spanning, *RMS-11 User's Guide*, 1-16, 1-19, 3-1
 - variable-length records, *RMS-11 User's Guide*, 2-16
 - unlocking, *I/O Operations*, 2-44
 - verifying, *Utilities*, 14-6
 - virtual, *RMS-11 Intro*, 2-3; *I/O Operations*, 5-2
 - writing
 - See WRITE operation
- BLOCK_SPAN
 - RMSDES utility, *RMS-11 Utilities*, 2-37
- Block access
 - initialization, *I/O Operations*, 2-11
 - READ\$ macro, *I/O Operations*, 2-11
 - WRITE\$ macro, *I/O Operations*, 2-11
- Block boundary, *I/O Operations*, 2-6
 - crossing
 - record attribute, *I/O Operations*, 3-9
 - fixed-length record
 - PUT\$ macro, *I/O Operations*, 3-27
 - FSR block buffer, *I/O Operations*, 3-26
 - RMSDEF utility, *RMS-11 Utilities*, A-9

- Block boundary (cont'd.)
 - variable-length record
 - PUT\$ macro, *I/O Operations*, 3-27
- Block buffer
 - initializing FDB, *I/O Operations*, 2-17
 - pool space
 - FSR, *I/O Operations*, 2-36
- BLOCK command, MCR, 3-29
 - brief description, MCR, 1-6
 - examples, MCR, 3-29
 - format, MCR, 3-29
 - keyword
 - /TERM, MCR, 3-29
 - parameters, MCR, 3-29
- Block I/O, *I/O Operations*, 2-9, 2-10
 - block size, *I/O Operations*, 2-12
 - buffer, *I/O Operations*, 2-12
 - completion event flag, *I/O Operations*, 2-12
 - I/O status block, *I/O Operations*, 2-12
 - operation, *I/O Operations*, 1-8
 - FD.RWM parameter, *I/O Operations*, 3-6
 - request
 - record attribute, *I/O Operations*, 3-9
- Block mode
 - EDI editor, *Program Development*, 1-4
 - RMSCNV utility, *RMS-11 Utilities*, 4-1
- Block number switch
 - See /BL switch
- Block On/Off command
 - EDI editor, *Utilities*, 7-18
- Block operation, *RMS-11 Macro*, 4-14
- Block-operation macro, *RMS-11 Macro*, C-3
 - \$READ, *RMS-11 Macro*, 5-98
 - \$WRITE, *RMS-11 Macro*, 5-127
- Block processing, *RMS-11 Macro*, 4-11
- Block-replacement operation
 - subpacket information, *Error Logging*, 4-66
- Block size
 - block I/O, *I/O Operations*, 2-12
 - override, *I/O Operations*, 3-10
 - resetting
 - CLOSE\$ macro, *I/O Operations*, 2-18
- Block stream, *RMS-11 Macro*, 4-14
- Block stream operation, *RMS-11 Macro*, 4-12
- Block tape
 - override size, *I/O Operations*, 2-18
- /BL subswitch
 - PIP utility, *Utilities*, 12-37
- /BL switch
 - CMP utility, *Utilities*, 4-3
 - /BL switch (cont'd.)
 - DMP utility, *Utilities*, 5-4
 - DSC utility, *Utilities*, 6-11
 - FLX utility, *Utilities*, 8-7
 - RMSCNV utility, *RMS-11 Utilities*, 4-8
 - \$BLXIO routine, *Writing I/O Driver*, 7-11
 - \$BMSET Executive routine, *Error Logging*, 4-21
- BOO command
 - See BOOT command
- Boot block
 - writing, *System Generation*, 4-3
- BOOT command, MCR, 2-7, 3-30
 - brief description, MCR, 1-5
 - example, MCR, 3-31
 - format, MCR, 3-30
 - parameters, MCR, 3-30
- /BOOT keyword
 - SAV command (VMR), *System Management*, 5-45
- Bootstrapping
 - system, MCR, 3-30, 3-31
 - unmapped, MCR, 3-31
 - unsaved, MCR, 3-31
- ^B operator
 - for temporary binary radix, *MACRO-11*, 5-26
- /BOT keyword
 - SET command (VMR), *System Management*, 5-52 to 5-53
- Bottom command
 - EDI editor, *Utilities*, 7-19
- BOTTOM function
 - EDT editor, *Introduction*, 2-7
- BPI
 - See Bit density
- BPR, *System Management*, 3-2
 - error messages, *System Management*, 3-51 to 3-53
- BPR.TSK
 - installing, *System Management*, 3-11
- /BP switch
 - RMSDPS utility, *RMS-11 Utilities*, 5-3 to 5-4
- BPT trap instruction, XDT, 1-8
- Branch
 - location, *Debugging*, 2-5; XDT, 2-11
 - offset, *Debugging*, 4-5, 7-2
 - calculating, *Debugging*, 4-5
- Branch instruction, *MACRO-11*, 4-8
- Breakpoint, *Debugging*, 3-1, 3-3; XDT, 1-9, 2-14

Breakpoint (cont'd.)

- address register, *Debugging*, 2-6, 3-2, 5-4;
XDT, 2-12
- clearing, *Debugging*, 3-2
- inserting with OPEN command, XDT, 1-9
- inserting with ZAP utility, XDT, 1-11
- instruction register, *Debugging*, 2-6, 5-4;
XDT, 2-12
- proceed count, *Debugging*, 3-4
- proceed count register, *Debugging*, 2-6, 5-4;
XDT, 2-12
- register, *Program Development*, 5-6
- removing, *Debugging*, 2-7, 3-2; XDT,
2-12
- setting, *Debugging*, 2-7, 3-1
- setting in a driver, *Writing I/O Driver*, 6-5
- setting in a task, *Program Development*, 5-6
- setting with XDT, XDT, 2-2

BREAKPOINT TO EXECUTIVE DEBUGGING

TOOL command, MCR, 3-32

- brief description, MCR, 1-7
- example, MCR, 3-32
- format, MCR, 3-32

Breakthrough write

- TTDRV, *I/O Drivers*, 2-18, 2-20
- nonprivileged task, *I/O Drivers*, 2-20
- privileged task, *I/O Drivers*, 2-20

B register, *Debugging*, 2-6, 5-4; XDT, 2-12

Brief format report, *Error Logging*, 1-4

- processing, *Error Logging*, 4-10, 4-17
- RPT, *Error Logging*, 3-13

/BRIEF qualifier

ANALYZE/ERROR_LOG command, *Error Logging*, 3-13

See also /FORMAT switch

SHOW QUEUE command, *Batch and Queue*, 2-14

BRK command, XDT, 1-9

See also BREAKPOINT TO EXECUTIVE
DEBUGGING TOOL command

BROADCAST command, MCR, 3-33; DCL,

- 3-32 to 3-35, 9-7; *Introduction*, 3-9
- and indirect command file, MCR, 3-33
- brief description, MCR, 1-7
- examples, MCR, 3-34
- formats, MCR, 3-33
- message formats, MCR, 3-34
- option, MCR, 3-34

BRO command

See BROADCAST command

/BRO keyword

- SET command, MCR, 3-159
- SET command (VMR), *System Management*,
5-53

/BR subswitch

- PIP utility, *Utilities*, 12-19

/BR switch

- QUE /LI command, *Batch and Queue*, 2-14

BRUSYS system, *System Generation*, 2-6

BRU utility, MCR, 3-94; *System Management*,
1-14

See also BACKUP command

bad block processing, *Utilities*, 3-29

command line, *Utilities*, A-2

format, *Utilities*, 3-6

parameters, *Utilities*, 3-6

copying a saved system, *System Management*, 5-20

copying system images, *Utilities*, 3-30

data transfer, *Utilities*, 3-30

device information, *Utilities*, 3-2

device support, *Utilities*, 3-5

disk initialization, *Utilities*, 3-18

disk initialization values, *System Generation*,
2-10

examples, *Utilities*, 3-32

file creation date, *Utilities*, 3-31

file revision date, *Utilities*, 3-31

file specification

wildcard character, *Utilities*, 3-7, 3-9

file treatment, *Utilities*, 3-31

file header, *Utilities*, 3-31

file synonym, *Utilities*, 3-31

lost file, *Utilities*, 3-31

messages, *Utilities*, 3-39

fatal, *Utilities*, 3-51

informational, *Utilities*, 3-39

warning, *Utilities*, 3-40

qualifiers

/APPEND, *Utilities*, 3-10

/BACKUP_SET, *Utilities*, 3-11

/BAD, *Utilities*, 3-12

/BUFFERS, *Utilities*, 3-12

/COMPARE, *Utilities*, 3-13

/CREATED, *Utilities*, 3-13

/DENSITY, *Utilities*, 3-14

/DIRECTORY, *Utilities*, 3-14

/DISPLAY, *Utilities*, 3-16

/ERRORS, *Utilities*, 3-16

/EXCLUDE, *Utilities*, 3-16

/EXTEND, *Utilities*, 3-16

BRU utility

qualifiers (cont'd.)

- /HEADERS, *System Generation*, 2-10;
Utilities, 3-16
- /IDENTIFICATION, *Utilities*, 3-17
- /IMAGE, *Utilities*, 3-17
- /INITIALIZE, *Utilities*, 3-18
- /INVOLUME, *Utilities*, 3-18
- /LENGTH, *Utilities*, 3-19
- /MAXIMUM, *System Generation*, 2-10;
Utilities, 3-19
- /MOUNTED, *Utilities*, 3-20
- /NEW_VERSION, *Utilities*, 3-20
- /NOINITIALIZE, *Utilities*, 3-21
- /NOPRESERVE, *Utilities*, 3-21
- /NOSUPERSEDE, *Utilities*, 3-21
- /OUTVOLUME, *Utilities*, 3-21
- /POSITION, *Utilities*, 3-22
- /PROTECTION, *Utilities*, 3-22
- /REVISED, *Utilities*, 3-23
- /REWIND, *Utilities*, 3-24
- /SUPERSEDE, *Utilities*, 3-24
- /TAPE_LABEL, *Utilities*, 3-24
- /UFD, *Utilities*, 3-24
- /VERIFY, *Utilities*, 3-25
- /WINDOWS, *Utilities*, 3-25

standalone, *Utilities*, 3-27

- booting, *Utilities*, 3-28
- locating, *Utilities*, 3-28
- tasks, *Utilities*, 3-27

transporting system image, *MCR*, 3-30,
3-147

BS, *System Management*, 18-30

/BS keyword

MOUNT command, *MCR*, 3-119

/BS switch

- FLX utility, *Utilities*, 8-7
- PIP utility, *Utilities*, 12-9

BST, *System Management*, 18-31

Bucket, *RMS-11 Intro*, 4-2

continuation, *RMS-11 User's Guide*, 5-5

fill number, *RMS-11 Intro*, 4-2

populating indexed files, *RMS-11 User's Guide*, 6-28

high-key value, *RMS-11 User's Guide*, 5-5
to 5-6

I/O units, *RMS-11 User's Guide*, 1-16

index, *RMS-11 User's Guide*, 5-6

locking

and shared access, *RMS-11 User's Guide*, 2-8

Bucket

locking (cont'd.)

FIND operation, *RMS-11 User's Guide*,
2-8

GET operation, *RMS-11 User's Guide*,
2-8

relative files, *RMS-11 User's Guide*, 4-1

RMSCNV utility, *RMS-11 Utilities*, 4-10

BUCKET_SIZE

RMSDES utility

area section, *RMS-11 Utilities*, 2-43,
2-45

file section, *RMS-11 Utilities*, 2-32

Bucket format

indexed files, *RMS-11 User's Guide*, 5-2

Bucket size

calculation

alternate indexes, *RMS-11 User's Guide*,
6-19

primary index, *RMS-11 User's Guide*,
6-16

indexed files, *RMS-11 User's Guide*, 6-15

relative files, *RMS-11 User's Guide*, 4-2

RMSDEF utility, *RMS-11 Utilities*, A-15

Bucket splitting, *RMS-11 User's Guide*, 5-11

RRV, *RMS-11 User's Guide*, 5-12

Buf0 parameter

SETIBF: subroutine

K-series, *I/O Drivers*, 13-26

LADRV, *I/O Drivers*, 12-21

Bufadd parameter

device-specific function

receiving (LRDRV), *I/O Drivers*, 11-9

Buffer

attribute

address, *I/O Operations*, H-9

cache, *RMS-11 User's Guide*, 4-15

count

multiple, *I/O Operations*, 2-18

diagnostic (XEDRV), *I/O Drivers*, 10-22

format

declaring size, *Task Builder*, 12-16

full escape sequence (TTDRV), *I/O Drivers*,
2-76

I/O, *RMS-11 User's Guide*, 1-14

size, *RMS-11 User's Guide*, 2-5

intermediate (TTDRV), *I/O Drivers*, 2-81

item list 1 structure (TTDRV), *I/O Drivers*,
2-32

item list 2 structure

IO.EIO function (TTDRV), *I/O Drivers*,
2-34

Buffer (cont'd.)

- load microcode
 - IO.LOD function (LADRV), *I/O Drivers*, 12-26
- management
 - call RLSBUF (LADRV), *I/O Drivers*, 12-29
 - device queue (LADRV), *I/O Drivers*, 12-29
 - input sweep (LADRV), *I/O Drivers*, 12-29
 - K-series, *I/O Drivers*, 13-29, 13-30
 - LADRV, *I/O Drivers*, 12-28, 12-29
 - output sweep (LADRV), *I/O Drivers*, 12-29
 - overrun (LADRV), *I/O Drivers*, 12-29
 - task queue (LADRV), *I/O Drivers*, 12-29
- multiple, *RMS-11 User's Guide*, 2-18, 3-14, 4-15; *I/O Operations*, 2-18
- count, *I/O Operations*, 3-10
- type, *I/O Operations*, 2-18
- pool space
 - FSR, *I/O Operations*, 2-36
- protocol/address pair (XEDRV), *I/O Drivers*, 10-9
- read
 - protocol type (XEDRV), *I/O Drivers*, 10-17
- reading
 - destination address (XEDRV), *I/O Drivers*, 10-18
 - Ethernet address (XEDRV), *I/O Drivers*, 10-16
 - protocol type (XEDRV), *I/O Drivers*, 10-17
- received character (TTDRV), *I/O Drivers*, 2-79
- record
 - declaring size, *Task Builder*, 12-24
- removing from device queue (K-series), *I/O Drivers*, 13-24
- return buffer number
 - K-series, *I/O Drivers*, 13-21
- set
 - multicast address (XEDRV), *I/O Drivers*, 10-10
 - protocol type (XEDRV), *I/O Drivers*, 10-14
- set next
 - K-series, *I/O Drivers*, 13-21

Buffer (cont'd.)

- setting
 - characteristics (XEDRV), *I/O Drivers*, 10-8
 - destination address (XEDRV), *I/O Drivers*, 10-12
 - size
 - maximum, *I/O Drivers*, 10-24
 - minimum, *I/O Drivers*, 10-24
 - remote line (TTDRV), *I/O Drivers*, 2-84
 - special user
 - sample of driver handling, *Writing I/O Driver*, 8-15, 8-30
 - specifying number, *I/O Operations*, 2-19
 - task
 - checkpointing (TTDRV), *I/O Drivers*, 2-79
 - task record, *I/O Operations*, 3-20
 - locate mode, *I/O Operations*, 3-26
 - PUT\$ macro, *I/O Operations*, 3-26
 - text, *Program Development*, 1-4
 - type-ahead (TTDRV), *I/O Drivers*, 2-79
 - user, *RMS-11 User's Guide*, 1-14
- Buffer auxiliary characteristic
- zero size, *I/O Drivers*, 10-24
- Buffer boundary
- locate mode, *I/O Operations*, 3-22
- Buffer count
- default, *I/O Operations*, 2-19
- Buffer descriptor
- task, *I/O Operations*, 3-10
- Buffered I/O, *Writing I/O Driver*, 1-16
- Buffer flush routine, *I/O Operations*, 4-28
- Buffer FSR block
- locate mode, *I/O Operations*, 3-21
 - space allocation, *I/O Operations*, 2-19
- Buffering
- big, *I/O Operations*, 1-12
 - multiple
 - performance, *I/O Operations*, 1-12
 - record I/O, *I/O Operations*, 1-11
- Buffer pool, *RMS-11 Macro*, 3-5
- private (TTDRV), *I/O Drivers*, 2-80
- BUFFERSIZE command
- IOX, *System Management*, 12-18
 - Command mode, *System Management*, 12-18
 - initial default, *System Management*, 12-18

- BUFFERSIZE command
 - IOX (cont'd.)
 - Interactive mode
 - restriction, *System Management*, 12-10
 - random data pattern, *System Management*, 12-18
 - restriction
 - DECTapes, *System Management*, 12-18
 - FILES11 disk testing, *System Management*, 12-18
 - SELECT command line, *System Management*, 12-18
 - VERIFY command line, *System Management*, 12-18
 - /BUFFERSIZE keyword
 - SET command
 - messages to CO, *System Management*, 9-4
 - Buffer space
 - PARAMETERLIST display statistics
 - IOX, *System Management*, 12-36
 - /BUFFERS qualifier
 - BRU utility, *Utilities*, 3-12
 - /BUF keyword
 - SET command, MCR, 3-159
 - SET command (VMR), *System Management*, 5-53
 - Buf parameter
 - GLUN\$ macro, *I/O Drivers*, 1-22
 - Bufptr parameter
 - IO.STA function (LADRV), *I/O Drivers*, 12-27
 - Bugcheck facility, *Crash Dump Analyzer*, 1-4; XDT, 2-5
 - BUILD command, *System Management*, 4-10
 - example, *System Management*, 4-10
 - format, *System Management*, 4-10
 - Build command file
 - See INSBLD.CMD file
 - Building tasks, *RMS-11 User's Guide*, 1-12
 - See also Task Builder
 - Building the Executive and Drivers section, *System Generation*, 3-72 to 3-73
 - Building the Privileged Task section, *System Generation*, 3-74 to 3-75
 - Bus run
 - naming convention for, *System Management*, 4-19
 - Bus run (cont'd.)
 - switched
 - disconnecting from processor, *System Management*, 4-32
 - linking, *System Management*, 4-19
 - modifying connection to processor, *System Management*, 4-31
 - Bus switch, *Writing I/O Driver*, 1-18
 - BYE command, MCR, 3-36
 - brief description, MCR, 1-7
 - examples, MCR, 3-37
 - format, MCR, 3-37
 - keyword
 - /HOLD, MCR, 3-36
 - /BY switch
 - DMP utility, *Utilities*, 5-4
 - .BYTE directive, MACRO-11, 5-17
 - changes current location counter, MACRO-11, 5-30
 - example using concatenated macro argument, MACRO-11, 6-12
 - summary, MACRO-11, 5-1
 - Byte location
 - displaying, *Debugging*, 4-2, 4-4
 - opening, *Debugging*, 4-2, 4-4
 - Byte mode
 - changing to word mode, *Debugging*, 4-3
 - operator
 - ASCII, *Debugging*, 2-6; XDT, 2-12
 - octal, *Debugging*, 2-7, 4-2; XDT, 2-12
 - BYTE numeric data type
 - CFL, *Error Logging*, 5-5
 - BYTE value
 - equivalent string, *Error Logging*, 5-4
- ## C
-
- C.CHRL field
 - XEDRV
 - destination address, *I/O Drivers*, 10-14
 - multicast address, *I/O Drivers*, 10-11
 - protocol/address buffer, *I/O Drivers*, 10-10
 - reading
 - destination address, *I/O Drivers*, 10-18
 - Ethernet address, *I/O Drivers*, 10-17
 - protocol type, *I/O Drivers*, 10-17
 - set characteristics buffer, *I/O Drivers*, 10-8

C.DATI field

XEDRV

- destination address, *I/O Drivers*, 10-14
- multicast address, *I/O Drivers*, 10-11
- protocol/address buffer, *I/O Drivers*, 10-10
- protocol type, *I/O Drivers*, 10-14
- reading
 - destination address, *I/O Drivers*, 10-18
 - Ethernet address, *I/O Drivers*, 10-17
 - protocol type, *I/O Drivers*, 10-17
- set characteristics buffer, *I/O Drivers*, 10-8

C.DATO field

XEDRV

- destination address, *I/O Drivers*, 10-14
- multicast address, *I/O Drivers*, 10-11
- protocol/address buffer, *I/O Drivers*, 10-10
- protocol type, *I/O Drivers*, 10-14
- reading
 - Ethernet address, *I/O Drivers*, 10-17
 - protocol type, *I/O Drivers*, 10-17
- set characteristics buffer, *I/O Drivers*, 10-8

C.STAT field

XEDRV

- destination address, *I/O Drivers*, 10-14
- multicast address, *I/O Drivers*, 10-11
- protocol/address buffer, *I/O Drivers*, 10-10
- protocol type, *I/O Drivers*, 10-14
- reading
 - destination address, *I/O Drivers*, 10-18
 - Ethernet address, *I/O Drivers*, 10-17
 - protocol type, *I/O Drivers*, 10-17
- set characteristics buffer, *I/O Drivers*, 10-8

C.TYP field

XEDRV

- multicast address, *I/O Drivers*, 10-11
- protocol/address buffer, *I/O Drivers*, 10-10
- protocol type, *I/O Drivers*, 10-14
- reading
 - destination address, *I/O Drivers*, 10-18

C.TYP field

XEDRV

- reading (cont'd.)
 - Ethernet address, *I/O Drivers*, 10-17
 - protocol type, *I/O Drivers*, 10-17
- set characteristics buffer, *I/O Drivers*, 10-8
- setting destination address, *I/O Drivers*, 10-14
- \$C5TA (Radix-50 to ASCII), *System Library*, 5-13
- /CACHE, *Crash Dump Analyzer*, 2-4, 2-5
- Cache, *RMS-11 User's Guide*, 4-15
 - definition, *System Management*, 15-1
 - indexed files, *RMS-11 User's Guide*, 7-9
- Cache data
 - See Data caching
- Cache dump, *Crash Dump Analyzer*, 3-44
- /CACHE keyword
 - MOUNT command, MCR, 3-111
 - CREATE option, MCR, 3-111
 - [NO]DEFER_WRITES option, MCR, 3-111
 - [NO]DIRECTORY option, MCR, 3-111
 - [NO]LOGICAL option, MCR, 3-111
 - [NO]OVERLAY option, MCR, 3-112
 - [NO]READ_AHEAD option, MCR, 3-112
 - [NO]VIRTUAL option, MCR, 3-112
 - REGION option, MCR, 3-111
- SET command, MCR, 3-159
 - CREATE option, MCR, 3-159
 - [NO]DEFER_WRITES option, MCR, 3-160
 - [NO]DIRECTORY option, MCR, 3-160
 - [NO]LOGICAL option, MCR, 3-160
 - [NO]OVERLAY option, MCR, 3-160
 - [NO]READ_AHEAD option, MCR, 3-160
 - [NO]VIRTUAL option, MCR, 3-160
 - REGION option, MCR, 3-159
- Cache memory, *Crash Dump Analyzer*, 3-44
- Cache memory switch
 - See /CACHE
- /CACHE qualifier
 - options, *System Management*, 15-2
 - use with MOUNT command, *System Management*, 15-2
- Cache region
 - See Disk data caching

Cache region display

RMD

- detailed statistics, *System Management*, 7-21
- altering from MCR command line, *System Management*, 7-24
- altering from setup page, *System Management*, 7-23
- contents, *System Management*, 7-22
- example, *System Management*, 7-21
- general statistics, *System Management*, 7-19
- altering from MCR command line, *System Management*, 7-21
- altering from setup page, *System Management*, 7-21
- contents, *System Management*, 7-20, 15-9
- example, *System Management*, 7-19

RATE command, *System Management*, 7-21

REGION command, *System Management*, 7-21

CALDEV Executive routine, *Error Logging*, 4-26

Call

operation routine

- arguments in memory, *RMS-11 Macro*, 2-15
- macro argument, *RMS-11 Macro*, 2-13, 2-14

CALL ABORT, *Executive*, 5-10
CALL ACHN, *Executive*, 5-12
CALL ALTPRI, *Executive*, 5-15
CALL ASNLUN, *Executive*, 5-17
CALL ATRG, *Executive*, 5-22
CALL CANALL, *Executive*, 5-62
CALL CANMT, *Executive*, 5-40
CALL CLREF, *Executive*, 5-35
CALL CNCT, *Executive*, 5-42
CALL CNCTN, *Executive*, 5-42
CALL CPR, *Executive*, 5-45
CALL CRAW, *Executive*, 5-47
CALL CRELOG, *Executive*, 5-36
CALL CRELON, *Executive*, 5-36
CALL CRGF, *Executive*, 5-51
CALL CRRG, *Executive*, 5-53
CALL CRVT, *Executive*, 5-59
CALL DECLAR, *Executive*, 5-64
CALL DELLOG, *Executive*, 5-65
CALL DELLON, *Executive*, 5-65
CALL DISCKP, *Executive*, 5-70

CALL DSASTR, *Executive*, 5-68

CALL DTRG, *Executive*, 5-72

CALL ELAW, *Executive*, 5-74

CALL ELGF, *Executive*, 5-76

CALL ELVT, *Executive*, 5-78

CALL EMST, *Executive*, 5-80

CALL ENACKP, *Executive*, 5-84

CALL ENASTR, *Executive*, 5-82

CALL EXIT, *Executive*, 5-88

CALL EXITIF, *Executive*, 5-85

CALL EXST, *Executive*, 5-89

CALL EXTTSK, *Executive*, 5-91

CALL FEAT, *Executive*, 5-93

CALL FSS, *Executive*, 5-97

CALL GETCII, *Executive*, 5-105

CALL GETDDS, *Executive*, 5-108

CALL GETLUN, *Executive*, 5-126

CALL GETMCR, *Executive*, 5-129

CALL GETPAR, *Executive*, 5-134

CALL GETREG, *Executive*, 5-136

CALL GETTIM, *Executive*, 5-140

CALL GETTSK, *Executive*, 5-142

CALL GMCX, *Executive*, 5-131

CALL GTCMCI, *Executive*, 5-100

CALL INASTR, *Executive*, 5-68

CALL macro

special-purpose (K-series), *I/O Drivers*, 13-28

CALL MAP, *Executive*, 5-145

CALL MARK, *Executive*, 5-148

CALL op code

standard (K-series), *I/O Drivers*, 13-28

CALL PRSFCS, *Executive*, 5-157

CALL PRSRMS, *Executive*, 5-163

CALL PWRUP, *Executive*, 5-239

CALL QIO, *Executive*, 5-168

CALL RCST, *Executive*, 5-174

CALL RCTLOG, *Executive*, 5-186

CALL RCTLON, *Executive*, 5-186

CALL READEF, *Executive*, 5-181, 5-183, 5-184

CALL READSW, *Executive*, 5-138

CALL RECEIV, *Executive*, 5-176

CALL RECOEX, *Executive*, 5-178

CALL REQUES, *Executive*, 5-195

CALL RESUME, *Executive*, 5-204

CALL RMAF, *Executive*, 5-190

CALL RPOI, *Executive*, 5-191

CALL RREF, *Executive*, 5-198

CALL RRSST, *Executive*, 5-201

CALL RUN, *Executive*, 5-206

CALLS

- calling macro example (LADRV), *I/O Drivers*, 12-24
- special calling macro (LADRV), *I/O Drivers*, 12-24
- CALL SDRC, *Executive*, 5-222
- CALL SDRCN, *Executive*, 5-222
- CALL SDRP, *Executive*, 5-225
- CALL SEND, *Executive*, 5-217
- CALL SETCLI, *Executive*, 5-215
- CALL SETDDS, *Executive*, 5-219
- CALL SETEF, *Executive*, 5-228
- CALL SETTIM, *Executive*, 5-268
- CALL SMSG, *Executive*, 5-231
- CALL SNXC, *Executive*, 5-234
- CALL SPAWN, *Executive*, 5-241
- CALL SPAWNN, *Executive*, 5-241
- CALL SREA, *Executive*, 5-255
- CALL SREF, *Executive*, 5-259
- CALL SREX, *Executive*, 5-255
- CALL STAF, *Executive*, 5-266
- CALL START, *Executive*, 5-206
- CALL statement
 - CFL, *Error Logging*, 5-32
- CALL STLOR, *Executive*, 5-271
- CALL STLORS, *Executive*, 5-271
- CALL STOP, *Executive*, 5-274
- CALL STOPFR, *Executive*, 5-275
- CALL SUSPND, *Executive*, 5-238
- CALL TFEA, *Executive*, 5-283
- CALL TRALOG, *Executive*, 5-286
- CALL TRALON, *Executive*, 5-286
- CALL ULGF, *Executive*, 5-290
- CALL UNMAP, *Executive*, 5-292
- CALL USTP, *Executive*, 5-294
- CALL VRCD, *Executive*, 5-296
- CALL VRCS, *Executive*, 5-298
- CALL VRCX, *Executive*, 5-300
- CALL VSDA, *Executive*, 5-302
- CALL VSRC, *Executive*, 5-304
- CALL VSRCN, *Executive*, 5-304
- CALL WAIT, *Executive*, 5-148
- CALL WAITFR, *Executive*, 5-311
- CALL WFLOR, *Executive*, 5-309
- CALL WFLORS, *Executive*, 5-309
- CALL WFSNE, *Executive*, 5-307
- CALL WTQIO, *Executive*, 5-172
- CANCEL command, MCR, 3-38, 3-140;
 - DCL, 7-23, 9-7
 - brief description, MCR, 1-6
 - example, MCR, 3-38
 - format, MCR, 3-38

CANCEL command (cont'd.)

- parameters, MCR, 3-38
- VMR
 - See CAN command
- Cancel I/O
 - entry point, *Writing I/O Driver*, 4-60
 - overview, *Writing I/O Driver*, 2-5
 - VTDRV, *I/O Drivers*, 3-4
- Cancel Mark Time Requests directive, *Executive*, 5-40
- Cancel Scheduled Initiation Requests directive, *Executive*, 5-62
- CAN command
 - See also CANCEL command
 - VMR
 - definition, *System Management*, 5-11
 - example, *System Management*, 5-11
 - format, *System Management*, 5-11
 - parameter, *System Management*, 5-11
- CAPS LOCK key, DCL, 3-14
- /CARD_READER processor type, *System Management*, 3-20
- Card deck
 - batch jobs, *Batch and Queue*, 3-23
 - \$EOJ card, *Batch and Queue*, 3-24
 - example, *Batch and Queue*, 3-24
 - \$JOB card, *Batch and Queue*, 3-24
 - \$PASSWORD card, *Batch and Queue*, 3-24
 - \$PRINT card, *Batch and Queue*, 3-24
 - sequence field, *Batch and Queue*, 3-24
 - \$SUBMIT card, *Batch and Queue*, 3-24
- Card reader (CRDRV), *I/O Drivers*, 9-1
 - checks
 - pick, *I/O Drivers*, 9-4
 - read, *I/O Drivers*, 9-4
 - recovery, *I/O Drivers*, 9-5
 - stack, *I/O Drivers*, 9-5
 - console message, *I/O Drivers*, 9-5, 9-6
 - control character, *I/O Drivers*, 9-7, 9-8
 - formats
 - alphanumeric, *I/O Drivers*, 9-8
 - binary, *I/O Drivers*, 9-8
 - data, *I/O Drivers*, 9-8
 - function, *I/O Drivers*, 9-7
 - code list, *I/O Drivers*, B-12
 - indicator, *I/O Drivers*, 9-4, 9-5
 - input card limitation, *I/O Drivers*, 9-8
 - input error, *I/O Drivers*, 9-4
 - programming hint, *I/O Drivers*, 9-8
 - ready message, *I/O Drivers*, 9-5
 - switches, *I/O Drivers*, 9-4, 9-5
 - power, *I/O Drivers*, 9-4

- Card reader (CRDRV)
 - switches (cont'd.)
 - reset, *I/O Drivers*, 9-5
 - stop, *I/O Drivers*, 9-5
- Card Reader Processor
 - See CRP
- Card Reader Spooling Transaction Block, *System Management*, 10-47
- CARRIAGE_CONTROL
 - RMSDES utility, *RMS-11 Utilities*, 2-37
- Carriage control, *I/O Operations*, 2-6, 2-7
 - record attribute, *I/O Operations*, 3-9
 - RMSDEF utility, *RMS-11 Utilities*, A-9
 - word
 - record attribute, *I/O Operations*, 3-9
- Carriage return
 - automatic (TTDRV), *I/O Drivers*, 2-77
 - cannot follow single or double quotation mark, *MACRO-11*, 5-19
 - CTRL/R (TTDRV), *I/O Drivers*, 2-71
- CASE conditional declaration
 - CFL, *Error Logging*, 5-29
- CASE statement
 - CFL, *Error Logging*, 5-34
- Cassette, *RMS-11 Macro*, 3-2, 5-20, 5-37, 5-43, 5-77, 5-88, 5-104, 5-111, 5-118
 - exercising with IOX, *System Management*, 12-2
 - function code list, *I/O Drivers*, B-12
- /CA switch
 - RMSCNV utility, *RMS-11 Utilities*, 4-8
- \$CAT5 (ASCII to Radix-50), *System Library*, 4-8
- \$CAT5B (ASCII with blanks to Radix-50), *System Library*, 4-9
- CATCHALL.CMD file
 - See also TDX
 - example, *System Management*, 19-5
- Catchall task, *Indirect*, 2-2
 - See also TDX
 - definition of, *MCR*, 1-4
- Catchup
 - definition, *System Management*, 16-5
- Cathode-ray tube
 - See CRT
- CBD, *System Management*, 5-26
 - See also Common Block Directory
- \$CBDAT (Binary date to decimal), *System Library*, 5-2
- CBD command
 - See also COMMON BLOCK DIRECTORY command
- \$CBDMG (Binary to unsigned decimal), *System Library*, 5-3
- \$CBDSG (Binary to signed decimal), *System Library*, 5-5
- CBM, *System Management*, 18-33
- \$CBOMG (Binary to unsigned octal), *System Library*, 5-8
- \$CBOSG (Binary to signed octal), *System Library*, 5-9
- Cb parameter
 - device-specific function
 - tape driver, *I/O Drivers*, 6-7
 - VTDRV, *I/O Drivers*, 3-3
 - IO.STC function (VTDRV), *I/O Drivers*, 3-6
- /CB switch
 - CMP utility, *Utilities*, 4-3
- \$CBTA (General purpose binary to ASCII), *System Library*, 5-12
- \$CBTMG (Binary byte to octal), *System Library*, 5-10
- /CC keyword
 - MOUNT command, *MCR*, 3-120
- CCML\$ macro, *I/O Operations*, 6-12
- /CC switch, *Task Builder*, 10-7
- CDA, *Error Logging*, 1-1; *System Management*, 1-17; *Writing I/O Driver*, 6-1
 - analysis listing, *Crash Dump Analyzer*, 3-1 to 3-46
 - function, *Crash Dump Analyzer*, 1-1
 - input to, *Crash Dump Analyzer*, 1-5
 - messages, *Crash Dump Analyzer*, A-1
 - running, *Crash Dump Analyzer*, 1-6
 - as installed task, *Crash Dump Analyzer*, 1-7
 - as uninstalled task, *Crash Dump Analyzer*, 1-7
 - switches, *Crash Dump Analyzer*, 2-3 to 2-11
- CDA command line, *Crash Dump Analyzer*, 2-1 to 2-11
 - binary file, *Crash Dump Analyzer*, 2-2
 - crash input file, *Crash Dump Analyzer*, 2-3
 - default, *Crash Dump Analyzer*, 2-10
 - format, *Crash Dump Analyzer*, 2-1
 - list file, *Crash Dump Analyzer*, 2-1
 - symbol file, *Crash Dump Analyzer*, 2-2
- \$CDDMG (Double-precision binary to decimal), *System Library*, 5-6

- CDR argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
- /CD switch
 - PIP utility, *Utilities*, 12-10
 - RMSBCK utility, *RMS-11 Utilities*, 6-8 to 6-9
- \$CDTB (Decimal to binary), *System Library*, 4-4
- CE.ACN address protocol/pair
 - XEDRV, *I/O Drivers*, 10-10
- CE.IUM address protocol/pair
 - XEDRV, *I/O Drivers*, 10-10
- CE.MCE multicast error
 - XEDRV, *I/O Drivers*, 10-11
- CE.NMA multicast error
 - XEDRV, *I/O Drivers*, 10-11
- CE.PCN protocol usage conflict
 - XEDRV, *I/O Drivers*, 10-10
- CE.RES error code
 - XEDRV, *I/O Drivers*, 10-9
- CE.RTL error code
 - XEDRV, *I/O Drivers*, 10-9
- CE.RTS error code
 - XEDRV, *I/O Drivers*, 10-9
- Cell, *RMS-11 Intro*, 3-5
 - relative files, *RMS-11 User's Guide*, 4-1
 - sequential files, *RMS-11 User's Guide*, 3-2
- Central buffer pool, *RMS-11 Macro*, 3-4
- Central Processing Unit
 - See CPU
- CEX, *System Generation*, 5-49
- CFL
 - command line
 - DEVSM1, *Error Logging*, 4-11
 - comments, *Error Logging*, 5-3
 - data types, *Error Logging*, 5-4 to 5-8
 - numeric, *Error Logging*, 5-5 to 5-7
 - string conversion, *Error Logging*, 5-4
 - declaration
 - conditional, *Error Logging*, 5-28 to 5-30
 - CASE, *Error Logging*, 5-29
 - IF, *Error Logging*, 5-28
 - data item, *Error Logging*, 5-25
 - definition, *Error Logging*, 5-3
 - scope, *Error Logging*, 5-25
 - variables, *Error Logging*, 5-25
 - definition, *Error Logging*, 4-2, 5-2
 - error messages
 - See ERLCFL error messages
 - expression operand
 - literal, *Error Logging*, 5-9

- CFL
 - expression operand (cont'd.)
 - variable, *Error Logging*, 5-9
 - expression operators, *Error Logging*, 5-9 to 5-16
 - expressions, *Error Logging*, 5-3, 5-9 to 5-15
 - conditionals, *Error Logging*, 5-3
 - definition, *Error Logging*, 5-3
 - list, *Error Logging*, 5-3
 - expression type
 - function, *Error Logging*, 5-10
 - literal, *Error Logging*, 5-9
 - subexpression, *Error Logging*, 5-9
 - variable, *Error Logging*, 5-9
 - file
 - command input, *Error Logging*, 5-3
 - data input, *Error Logging*, 5-3
 - error output, *Error Logging*, 5-4
 - report output, *Error Logging*, 5-3
 - user-prompting, *Error Logging*, 5-3
 - format string, *Error Logging*, 5-41
 - control directives, *Error Logging*, 5-41
 - data-formatting directives, *Error Logging*, 5-42
 - formatting directives, *Error Logging*, 5-41
 - functions, *Error Logging*, 5-16 to 5-25
 - computational, *Error Logging*, 5-20
 - conditional, *Error Logging*, 5-17
 - conversion, *Error Logging*, 5-17, 5-19
 - encoding, *Error Logging*, 5-19
 - format, *Error Logging*, 5-16
 - look-ahead, *Error Logging*, 5-21
 - packet information, *Error Logging*, 5-22
 - report control, *Error Logging*, 5-22
 - RPT control, *Error Logging*, 5-20
 - string-handling, *Error Logging*, 5-23
 - time-handling, *Error Logging*, 5-24
 - user I/O, *Error Logging*, 5-25
 - intermediate form modules, *Error Logging*, 5-1
 - keyword, *Error Logging*, 5-3
 - literal value, *Error Logging*, 5-9
 - See also LITERAL statement
 - named variables, *Error Logging*, 5-8, 5-8 to 5-9
 - numeric literals, *Error Logging*, 5-6
 - numeric operators, *Error Logging*, 5-13 to 5-16
 - parsing routines, *Error Logging*, 4-4
 - primitives, *Error Logging*, 5-1
 - print radices, *Error Logging*, 5-5

- CFL
 - print radices (cont'd.)
 - defaults, *Error Logging*, 5-6
 - signalling, *Error Logging*, 5-39
 - spaces and tabs in text, *Error Logging*, 5-3
 - statements, *Error Logging*, 5-3, 5-25 to 5-40
 - action, *Error Logging*, 5-30 to 5-31
 - control, *Error Logging*, 5-31 to 5-36
 - lexical conditionals, *Error Logging*, 5-35
 - table, *Error Logging*, 5-36, 5-37, 5-38
 - user interface
 - command mode, *Error Logging*, 5-42
 - option mode, *Error Logging*, 5-43
- C flag
 - in assembly listing, *MACRO-11*, 3-1
- CFL compiler, *Error Logging*, 1-1, 1-5, 5-1
 - user interface, *Error Logging*, 5-42
- \$CFORK, *Writing I/O Driver*, 1-19
- CFT, *Utilities*, C-7
- .CHAIN directive, *Indirect*, 2-47
- Changeable key, *RMS-11 User's Guide*, 6-9; *RMS-11 Intro*, 3-10
- CHANGE command
 - EDT editor, *Introduction*, 2-6
- Change command
 - EDI editor, *Program Development*, 2-15, 7-4; *Utilities*, 7-19
- Change-limits operation
 - subpacket information, *Error Logging*, 4-66
- Change mode
 - See Character mode
- CHANGES
 - RMSDES utility, *RMS-11 Utilities*, 2-40
 - defining areas by default, *RMS-11 Utilities*, 2-44
 - in indirect command file, *RMS-11 Utilities*, 2-4
 - PROTECTION attribute, *RMS-11 Utilities*, 2-33
 - with CREATE, *RMS-11 Utilities*, 2-8, 2-28
 - with SAVE, *RMS-11 Utilities*, 2-27
- Change supervisor mode
 - See CSM library
- Channel
 - definition
 - multiaccess (XEDRV), *I/O Drivers*, 10-27
 - set information (K-series), *I/O Drivers*, 13-25
- /CHAR_LENGTH keyword
 - SET command, *MCR*, 3-161
 - SET command (VMR), *System Management*, 5-53
- Character
 - See also Special character and Separating character
 - control
 - CRDRV, *I/O Drivers*, 9-7, 9-8
 - TTDRV, *I/O Drivers*, 2-69 to 2-72
 - invalid, *MACRO-11*, 2-3
 - padding (tape driver), *I/O Drivers*, 6-17
 - pass-through, *MCR*, 3-178, 3-182
 - receive buffer (TTDRV), *I/O Drivers*, 2-79
 - special keys, *MCR*, 2-15 to 2-17
 - translation, *MCR*, 3-4 to 3-5, 3-122
 - unprocessed (TTDRV), *I/O Drivers*, 2-61
 - wildcard, *MCR*, 2-6
- Characteristics
 - buffer
 - XEDRV, *I/O Drivers*, 10-8
 - zero size, *I/O Drivers*, 10-24
 - clearing on remote (TTDRV), *I/O Drivers*, 2-84
 - multiple (VTDRV), *I/O Drivers*, 3-6
 - obtaining (tape driver), *I/O Drivers*, 6-8
 - physical (disk driver), *I/O Drivers*, 4-1
 - resetting
 - importance of (tape driver), *I/O Drivers*, 6-15
 - set
 - tape driver, *I/O Drivers*, 6-10
 - setting
 - Ethernet, *I/O Drivers*, 10-7
 - protocol/address (XEDRV), *I/O Drivers*, 10-9
 - side effect (TTDRV), *I/O Drivers*, 2-65
 - terminal (VTDRV), *I/O Drivers*, 3-7
 - XEDRV multicast address, *I/O Drivers*, 10-10
 - table (VTDRV), *I/O Drivers*, 3-8
 - terminal
 - get multiple (TTDRV), *I/O Drivers*, 2-20, 2-53
 - set multiple (TTDRV), *I/O Drivers*, 2-20
- Character mode
 - EDT editor, *Introduction*, 2-3 to 2-6
- Character set
 - ASCII, *MACRO-11*, A-1
 - definition, *MACRO-11*, 2-1

- Character set (cont'd.)
 - DIGITAL Multinational Character Set, *MACRO-11*, A-1
 - DIGITAL Multinational Character Set chart, *MACRO-11*, A-10
 - multinational, *MCR*, 3-4
 - radix-50, *MACRO-11*, A-8
- Character translation
 - SYSGEN question, *System Generation*, 3-30
- CHAR function
 - EDT editor, *Introduction*, 2-7
- Checkpoint
 - region, *System Management*, 1-3
 - task, *System Management*, 1-3
 - /CHECKPOINT:SYSTEM qualifier, *Task Builder*, 11-12
 - /CHECKPOINT:TASK qualifier, *Task Builder*, 11-13
 - /CHECKPOINT_FILE qualifier
 - SET DEVICE command, *System Management*, 1-5
- Checkpointable task
 - fixing, *System Management*, 5-19
- Checkpoint area
 - task, *Task Builder*, B-12
- Checkpoint Common Region directive, *Executive*, 5-45
- Checkpoint file
 - deallocating space from, *MCR*, 3-6
 - discontinuing, *MCR*, 3-6
 - primary, *MCR*, 3-6
 - secondary, *MCR*, 3-6
 - system, *MCR*, 3-6
 - truncating, *MCR*, 3-7
- Checkpointing, *System Management*, 1-3, 5-21; *Introduction*, 6-6
 - common, *System Management*, 5-26
 - during prompt (TTDRV), *I/O Drivers*, 2-16, 2-42
 - during read (TTDRV), *I/O Drivers*, 2-30
 - dynamic space allocation, *System Management*, 1-5
 - task (VTDRV), *I/O Drivers*, 3-5
 - task buffer (TTDRV), *I/O Drivers*, 2-79
 - terminal
 - input TTDRV, *I/O Drivers*, 2-83
- Checkpoint space
 - allocating, *Task Builder*, 10-6, 11-12, 11-13
 - amount needed, *MCR*, 3-6
 - dynamic allocation, *MCR*, 3-6; *System Management*, 1-5
- Checkpoint task
 - definition of, *MCR*, 2-19
- Check recovery
 - CRDRV, *I/O Drivers*, 9-5
- Checksum
 - calculating
 - SLP utility, *Utilities*, 13-2
 - validating file content, *Utilities*, 11-8
 - value, *I/O Operations*, 5-5
- Choosing Executive Options section, *System Generation*, 3-22 to 3-34
- Choosing Peripheral Configuration section, *System Generation*, 3-35 to 3-69
- Choosing SYSGEN Options section, *System Generation*, 3-16 to 3-21
- CINT\$, *Executive*, 5-24; *Writing I/O Driver*, 1-1
- Circumflex (^)
 - allows passing angle brackets as part of macro argument, *MACRO-11*, 6-6
 - construct for argument delimiter, *MACRO-11*, 2-3
 - do not confuse different meanings, *MACRO-11*, 6-6
 - special character in *MACRO-11*, *MACRO-11*, 2-2
 - universal unary operator, *MACRO-11*, 2-4
 - used when passing DIGITAL multinational characters, *MACRO-11*, 6-6
- Circumflex command (^), *Debugging*, 2-5, 4-3, 4-4; *XTD*, 2-11
- \$CKBFB routine, *Writing I/O Driver*, 7-12
- \$CKBFI routine, *Writing I/O Driver*, 7-12
- \$CKBFR routine, *Writing I/O Driver*, 7-12
- \$CKBFW routine, *Writing I/O Driver*, 7-12
- Ckcsr parameter
 - IO.CLK function (LADRV), *I/O Drivers*, 12-26
- /CKP keyword
 - INS command (VMR), *System Management*, 5-21
 - INSTALL command, *MCR*, 3-95
 - RUN command, *MCR*, 3-143
- CL device, *MCR*, 2-10
 - redirecting, *MCR*, 2-10
- CLEAN_UP parameter
 - STOP/ACCOUNTING command, *System Management*, 10-10
- CLEAR command, *System Management*, 4-11
 - example, *System Management*, 4-11
 - format, *System Management*, 4-11

CLEAR command (cont'd.)

RMSDES utility, *RMS-11 Utilities*, 2-6,
2-18, 2-25 to 2-26

Clear Event Flag directive, *Executive*, 5-35

CLEF\$ directive, *Executive*, 5-35

/CLE keyword

SWITCH REGISTER command, MCR,
3-201

/CLI, *Crash Dump Analyzer*, 2-4, 2-5

CLI, DCL, 1-1; *Introduction*, 1-5

See also DCL

adding to account entry, *System
Management*, 2-4

application, *System Management*, 17-4

changing, *System Management*, 2-11

command processing

serial, *System Management*, 17-8

commands, MCR, 1-7

continuation lines, *System Management*,
17-4

DCL, *Program Development*, 1-2 to 1-3;
System Management, 17-2

default, MCR, 3-67

definition, *System Management*, 1-18, 17-1

determining, *Program Development*, 1-2

disabling, MCR, 3-42

displaying, *System Management*, 2-8, 2-10

eliminating, MCR, 3-42

examples, *System Management*, 17-9, 17-15
FORTRAN, *System Management*, 17-15
to 17-20

MACRO-11, *System Management*, 17-9
to 17-15

getting information, *Executive*, 5-105

in account entry, *System Management*, 2-2,
2-4

initializing

/NULL qualifier, *System Management*,
17-3

/PROMPT qualifier, *System
Management*, 17-4

/SNGL keyword, *System Management*,
17-4

initializing data structures for, MCR, 3-42

interaction with system, *System
Management*, 17-4, 17-5

login, MCR, 3-67

MCR, *Program Development*, 1-2 to 1-3;
System Management, 17-2

as default, *System Management*, 2-4

prompting, *System Management*, 17-3

CLI

prompts

CTRL/C, *System Management*, 17-3

empty-line, *System Management*, 17-3

task-exit, *System Management*, 17-4

prompt string, MCR, 3-42

receiving system message, *Executive*, 5-100

retrieving command buffer, *Executive*,
5-100

setting up, *Executive*, 5-215

spawning, *Executive*, 4-5

specifying ASTs, *Executive*, 5-211

specifying task, *Task Builder*, 10-8, 11-14

status bits for, MCR, 3-45

supplied with system, *System Management*,
1-18

SYSGEN question, *System Generation*, 3-28

system messages

codes, *System Management*, 17-6

receiving, *System Management*, 17-5

task, MCR, 3-42; *System Management*,
5-21

task names, *System Management*, 17-3

writing

alternate, *System Management*, 1-18

Executive directives for, *System
Management*, 17-4

<CLI> symbol, *Indirect*, 2-22

CLI command

See also COMMAND LINE INTERPRETER
command

controlling alternate CLIs with, *System
Management*, 17-2

/INIT keyword, *System Management*, 17-2

CLI dispatcher task, *System Management*, 18-5

/CLI keyword

HELP command, MCR, 3-72

INS command

MCR, *System Management*, 17-2

INS command (VMR), *System Management*,
5-21

INSTALL command, MCR, 3-96

SET command, MCR, 3-161

CLI mode, *Indirect*, 2-54

\$CLINS routine, *Writing I/O Driver*, 7-13

CLI parser block dump, *Crash Dump Analyzer*,
3-24

/CLI switch, *Indirect*, 2-4, 2-33

/CLI switch (Indirect), *Indirect*, 2-4, 2-33

CLKDF\$, *Crash Dump Analyzer*, C-12

- Clock
 - computing rate and presetting (K-series),
 I/O Drivers, 13-27
 - line frequency
 - rate of interrupts, *System Management*,
 1-6
 - programmable
 - rate of interrupts, *System Management*,
 1-6
 - set clock A rate
 - K-series, *I/O Drivers*, 13-10
 - setting frequency, *System Generation*, 5-34;
 System Management, 4-2
- CLOCKA: subroutine
 - setting clock A rate
 - K-series, *I/O Drivers*, 13-10
 - LADRV, *I/O Drivers*, 12-6
- Clock B
 - controlling (K-series), *I/O Drivers*, 13-11
- CLOCKB: subroutine
 - controlling clock B
 - K-series, *I/O Drivers*, 13-11
 - LADRV, *I/O Drivers*, 12-7
- Clock interrupt
 - rate of occurrence, MCR, 3-140
- Clock queue, DCL, 7-13 to 7-16, 7-23, 9-40
 - deleting entry, DCL, 7-23
 - displaying, MCR, 3-46; DCL, 7-72
 - effect on default TI, MCR, 2-10
- CLOCK QUEUE command, MCR, 3-46
 - brief description, MCR, 1-6
 - example, MCR, 3-46
 - format, MCR, 3-46
- Clock queue dump, *Crash Dump Analyzer*,
 3-41
- Clock queue switch
 - See /CLQ
- Clock start command
 - LADRV, *I/O Drivers*, 12-25
- CLOG\$ directive, *Executive*, 5-36
 - ASSIGN command, MCR, 3-15
- CLON\$ directive, *Executive*, 5-36
 - ASSIGN command, MCR, 3-15
- CLOSE\$ example, *I/O Operations*, 5-10
- CLOSE\$ macro, *I/O Operations*, 3-1
 - file processing, *I/O Operations*, 3-17
 - completion, *I/O Operations*, 2-8
 - format
 - file processing, *I/O Operations*, 3-18
 - resetting
 - block size, *I/O Operations*, 2-18
- Close & Delete command
 - EDI editor, *Utilities*, 7-20
- Close command
 - EDI editor, *Utilities*, 7-20
 - .CLOSE directive, *Indirect*, 2-48
 - \$CLOSE macro, *RMS-11 Macro*, 5-3
 - CLOSE operation, *RMS-11 Macro*, 3-9, 5-3;
 RMS-11 User's Guide, 1-18; *RMS-11*
 Intro, 4-2
 - BDB requirement, *RMS-11 Macro*, 2-7
 - I/O buffer requirement, *RMS-11 Macro*,
 2-7
- Close Secondary command
 - EDI editor, *Utilities*, 7-20
 - /CLQ, *Crash Dump Analyzer*, 2-4, 2-6
- CLQ command
 - See CLOCK QUEUE command
- CLSTR option, *Task Builder*, 12-9 to 12-10
- /CL switch, *Task Builder*, 10-8
- CLUSTER_SIZE
 - RMSDES utility, *RMS-11 Utilities*, 2-31
- Cluster library, *Task Builder*, 5-49
 - building, *Task Builder*, 5-50 to 5-55
 - examples, *Task Builder*, 5-55 to 5-60
 - overlay run-time system, *Task Builder*, 5-61
- CM/CR11 card reader
 - SYSGEN question, *System Generation*, 3-47
- \$C macro form, *Executive*, 1-6
 - processing errors, *Executive*, 1-7
- /CMD keyword
 - RUN command, MCR, 3-143
- CMKT\$ directive, *Executive*, 5-40
- \$CMPAL routine, *Task Builder*, 8-2
- \$CMPCS routine, *Task Builder*, 8-2
- CMPRT option, *Task Builder*, 8-4, 12-11
- /CMP switch
 - DSC utility, *Utilities*, 6-13
- CMP utility
 - command line, *Utilities*, 4-1, A-6
 - default switches, *Utilities*, 4-4
 - messages, *Utilities*, 4-8
 - error, *Utilities*, 4-8
 - informational, *Utilities*, 4-8
 - output file format, *Utilities*, 4-5
 - switches
 - /BL, *Utilities*, 4-3
 - /CB, *Utilities*, 4-3
 - /CO, *Utilities*, 4-3
 - /DI, *Utilities*, 4-3
 - /FF, *Utilities*, 4-3
 - /LI, *Utilities*, 4-3
 - /LN, *Utilities*, 4-3

- CMP utility
 - switches (cont'd.)
 - /MB, *Utilities*, 4-3
 - /SL, *Utilities*, 4-3
 - /SP, *Utilities*, 4-3
 - /TB, *Utilities*, 4-4
 - /VB, *Utilities*, 4-4
 - /CM switch, *Task Builder*, 10-9
 - SLP utility, *Utilities*, 13-15
- CNCT\$ directive, *Executive*, 5-42
- %CND\$IF
 - CFL conditional function, *Error Logging*, 5-17
- %CND\$SELECT
 - CFL conditional function, *Error Logging*, 5-17
- CND argument
 - for .LIST/.NLIST, *MACRO-11*, 5-7
- CNF, *System Generation*, 2-6
 - changing CSR and vector, *System Generation*, 2-7
 - switches, *System Generation*, 2-7
- CNF module, *Error Logging*, 4-2
- %CNV\$BCD
 - CFL conversion function, *Error Logging*, 5-18
- %CNV\$BINARY
 - CFL conversion function, *Error Logging*, 5-18
- %CNV\$DECIMAL
 - CFL conversion function, *Error Logging*, 5-18
- %CNV\$DECIMAL_P
 - CFL conversion function, *Error Logging*, 5-18
- %CNV\$HEX
 - CFL conversion function, *Error Logging*, 5-18
- %CNV\$MACHINE
 - CFL conversion function, *Error Logging*, 5-19
- %CNV\$OCTAL
 - CFL conversion function, *Error Logging*, 5-18
- %CNV\$RAD50
 - CFL conversion function, *Error Logging*, 5-19
- %CNV\$RSX_TIME
 - CFL conversion function, *Error Logging*, 5-19
- %CNV\$STRING
 - CFL conversion function, *Error Logging*, 5-19
- %CNV\$VMS_TIME
 - CFL conversion function, *Error Logging*, 5-19
- COBOL command, *Introduction*, 5-12
- %COD\$BCD
 - CFL encoding function, *Error Logging*, 5-19
- %COD\$BINARY
 - CFL encoding function, *Error Logging*, 5-20
- %COD\$DECIMAL
 - CFL encoding function, *Error Logging*, 5-19
- %COD\$HEX
 - CFL encoding function, *Error Logging*, 5-19
- %COD\$MACHINE
 - CFL encoding function, *Error Logging*, 5-20
- %COD\$OCTAL
 - CFL encoding function, *Error Logging*, 5-19
- %COD\$RSX_TIME
 - CFL encoding function, *Error Logging*, 5-20
- %COD\$VMS_TIME
 - CFL encoding function, *Error Logging*, 5-20
- /CODE:CLI qualifier, *Task Builder*, 11-14
- /CODE:DATA_SPACE qualifier, *Task Builder*, 11-15
- /CODE:EAE qualifier, *Task Builder*, 11-16
- /CODE:FAST_MAP qualifier, *Task Builder*, 11-17
- /CODE:FPP qualifier, *Task Builder*, 11-18
- /CODE:OTS_FAST qualifier, *Task Builder*, 11-19
- /CODE:PIC qualifier, *Task Builder*, 11-20
- /CODE:POSITION_INDEPENDENT qualifier, *Task Builder*, 11-21
- Code and mask symbol
 - declaring
 - ALL block, *RMS-11 Macro*, C-3 to C-4
 - DAT block, *RMS-11 Macro*, C-3 to C-4
 - FAB, *RMS-11 Macro*, C-1
 - KEY block, *RMS-11 Macro*, C-3 to C-4
 - NAM block, *RMS-11 Macro*, C-2
 - PRO block, *RMS-11 Macro*, C-3 to C-4
 - RAB, *RMS-11 Macro*, C-2
 - SUM block, *RMS-11 Macro*, C-3 to C-4
 - XAB, *RMS-11 Macro*, C-4
 - value
 - ALL block, *RMS-11 Macro*, 6-2
 - DAT block, *RMS-11 Macro*, 6-14
 - FAB, *RMS-11 Macro*, 6-22
 - NAM block, *RMS-11 Macro*, 6-94
 - PRO block, *RMS-11 Macro*, 6-108

- Code and mask symbol
 - value (cont'd.)
 - RAB, *RMS-11 Macro*, 6-115
 - SUM block, *RMS-11 Macro*, 6-145
- Code symbol
 - See Code and mask symbol
- CO device, MCR, 2-10; *System Management*, 9-1
 - as default, *System Management*, 9-6
 - assigning to null device, *System Management*, 9-6
 - attaching, *System Management*, 9-3
 - detaching, *System Management*, 9-3
 - disabling, *System Management*, 9-6
 - displaying current assignment, *System Management*, 9-5
 - enabling, *System Management*, 9-6
 - monitoring status, *System Management*, 9-8
 - reading from, *System Management*, 9-4
 - reassigning, *System Management*, 9-6
 - redirecting, MCR, 2-10; *System Management*, 9-9
 - using as pseudo device, *System Management*, 9-1
 - using with the Console Logger, *System Management*, 9-2
 - writing to, *System Management*, 9-4
- Coding standard, *MACRO-11*, E-1
- CODRV driver, *System Management*, 1-14, 9-1
 - loading, *System Management*, 9-3
 - reasons for, *System Management*, 9-2
- /COLOG keyword, *System Management*, 9-5
- SET command, MCR, 3-161
- Colon (:)
 - invalid as .ASCII string delimiter, *MACRO-11*, 5-20
 - invalid as .ASCIZ string delimiter, *MACRO-11*, 5-21
 - invalid as .IDENT string delimiter, *MACRO-11*, 5-11
 - invalid as .RAD50 string delimiter, *MACRO-11*, 5-22
 - must precede switch value in RSX command string, *MACRO-11*, 7-5
 - never as character string delimiter, *MACRO-11*, 5-20
 - special character in *MACRO-11*, *MACRO-11*, 2-1
 - terminates a label, *MACRO-11*, 1-2
- %COM\$AND
 - CFL computational function, *Error Logging*, 5-20
- %COM\$HARDWARE
 - CFL computational function, *Error Logging*, 5-20
- %COM\$LONGWORD
 - CFL computational function, *Error Logging*, 5-20
- %COM\$NEGATE
 - CFL computational function, *Error Logging*, 5-20
- %COM\$NULL
 - CFL computational function, *Error Logging*, 5-20
- COM argument
 - for .LIST/.NLIST, *MACRO-11*, 5-7
- Comma (,)
 - in macro argument, *MACRO-11*, 6-7
 - ODL operator, *Task Builder*, 3-26
 - separating character, *MACRO-11*, 2-3
 - special character in *MACRO-11*, *MACRO-11*, 2-2
 - used in operand field, *MACRO-11*, 1-4
- Command, *Introduction*, 1-1
 - abbreviating, DCL, 1-12, 1-24; *Introduction*, 1-11
 - adding your own, *System Management*, 19-3
 - at sign (@), *Debugging*, 2-5, 4-4; XDT, 2-11
 - B, *Debugging*, 2-7; XDT, 2-12
 - circumflex (^), *Debugging*, 2-5, 4-3, 4-4; XDT, 2-11
 - D, *Debugging*, 2-7; XDT, 2-13
 - E, *Debugging*, 2-7, 6-2
 - equal sign (=), *Debugging*, 2-7, 7-2; XDT, 2-12
 - F, *Debugging*, 2-7, 6-4
 - G, *Debugging*, 2-8; XDT, 1-8, 2-13
 - I, *Debugging*, 2-8; XDT, 2-13
 - K, *Debugging*, 2-8; XDT, 2-13
 - L, *Debugging*, 2-8, 6-4; XDT, 2-14
 - left angle bracket (<), *Debugging*, 2-5, 4-6; XDT, 2-11
 - LINE FEED, *Debugging*, 2-5, 4-4; XDT, 2-10
 - MCR, DCL, 1-12
 - N, *Debugging*, 2-8, 6-2
 - O, *Debugging*, 2-9, 7-2; XDT, 2-14
 - P, *Debugging*, 2-9; XDT, 1-9, 2-14
 - privileged, MCR, 2-18
 - R, *Debugging*, 2-9; XDT, 2-14
 - RETURN, *Debugging*, 2-4, 4-2; XDT, 2-10

Command (cont'd.)

- right angle bracket (>), *Debugging*, 2-5, 4-5; *XDT*, 2-11
 - RMSDES utility, *RMS-11 Utilities*, 2-1, 2-4
 - S, *Debugging*, 2-9; *XDT*, 2-2, 2-14
 - U, *Debugging*, 2-9
 - underscore (—), *Debugging*, 2-5, 4-5; *XDT*, 2-11
 - V, *Debugging*, 2-9
 - variable
 - a, *Debugging*, 2-1; *XDT*, 2-10
 - k, *Debugging*, 2-1; *XDT*, 2-10
 - m, *Debugging*, 2-1
 - n, *Debugging*, 2-1; *XDT*, 2-10
 - #symbol, *XDT*, 2-10
 - list, *XDT*, B-1
 - x, *Debugging*, 2-1; *XDT*, 2-10
 - VMR
 - See also VMR commands
 - comments in, *System Management*, 5-5
 - continuation lines, *System Management*, 5-5
 - file specifications, *System Management*, 5-5
 - keywords
 - overview, *System Management*, 5-4
 - name, *System Management*, 5-4
 - parameter, *System Management*, 5-4
 - W, *Debugging*, 2-9, 6-2
 - X, *Debugging*, 1-5, 2-10; *XDT*, 2-1, 2-14
 - Z, *Debugging*, 2-10
- Command file, *DCL*, 6-5 to 6-6
- closing, *I/O Operations*, 6-12
 - indirect
 - See Indirect command file
 - resetting scan macro, *I/O Operations*, 6-11
 - RMSDEF utility, *RMS-11 Utilities*, A-5
- Command format
- VMR, *System Management*, 5-4
- COMMAND function
- EDT editor, *Introduction*, 2-10, 2-19
- Command library, *Indirect*, 2-33
- default file type, *Indirect*, 2-33
 - DIGITAL-supplied, *Indirect*, 2-34
- Command line, *MCR*, 1-1; *DCL*, 1-8
- comments, *DCL*, 1-20
 - components of, *MCR*, 1-1
 - compressing, *MCR*, 1-4
 - continuation, *MCR*, 1-3; *System Management*, 5-5; *DCL*, 1-20
 - continuing, *MCR*, 2-4
 - entering, *MCR*, 1-1

Command line (cont'd.)

- extending, *MCR*, 1-3
 - file specifications, *System Management*, 5-5
 - general format, *Utilities*, 1-3
 - ignoring blanks and tabs, *I/O Operations*, 7-8
 - including comments in, *MCR*, 1-3
 - length, *DCL*, 3-12
 - maximum length of, *MCR*, 2-4
 - maximum number of characters in, *MCR*, 1-3; *System Management*, 5-5
 - parameters, *MCR*, 1-2
 - parsing, *I/O Operations*, 7-1; *Indirect*, 2-82; *MCR*, 1-4
 - processing, *MCR*, 1-4; *I/O Operations*, 6-1
 - rejected, *System Management*, 5-82
 - terminating, *MCR*, 1-3
 - total length, *MCR*, 1-3; *System Management*, 5-5
 - use of quotation marks, *MCR*, 1-4
 - use of spaces within, *MCR*, 1-2
 - use of special characters, *MCR*, 1-4
- VMR
- components, *System Management*, 5-4
 - extending, *System Management*, 5-5
 - format, *System Management*, 5-4
 - including comments, *System Management*, 5-5
- Command line (TKB)
- DCL* format, *Task Builder*, 1-4
 - MCR* format, *Task Builder*, 1-2
 - multiline input, *Task Builder*, 1-7
 - terminating, *Task Builder*, 1-7
- Command line interpreter
- See CLI
- COMMAND LINE INTERPRETER command,
- MCR*, 3-41
 - brief description, *MCR*, 1-7
 - examples, *MCR*, 3-45
 - formats, *MCR*, 3-41
 - keywords
 - /DISABLE, *MCR*, 3-41
 - /ELIM, *MCR*, 3-41
 - /ENABLE, *MCR*, 3-42
 - /INIT, *MCR*, 3-42
 - /MESSAGE, *MCR*, 3-44
 - /SHOW, *MCR*, 3-44
 - /UNOVR, *MCR*, 3-45
 - parameters, *MCR*, 3-41
 - subkeywords
 - /CPR, *MCR*, 3-42

COMMAND LINE INTERPRETER command
subkeywords (cont'd.)

- /CTRLC, MCR, 3-42
- /DISABLE, MCR, 3-43
- /DPR, MCR, 3-43
- /LOG, MCR, 3-43
- /MESSAGE, MCR, 3-43
- /NULL, MCR, 3-43
- /PRIV, MCR, 3-44
- /PROMPT, MCR, 3-44
- /QUIET, MCR, 3-44
- /RESTRICT, MCR, 3-44
- /SNGL, MCR, 3-44
- /TASK, MCR, 3-44

Command line interpreter switch
See /CLI, /CPB

Command mode
IOX

description, *System Management*, 12-9

Command name

- abbreviating, MCR, 1-1
- acronyms, MCR, 1-2

Command procedure

- invoking, *Indirect*, 2-35
- universal library, *Indirect*, 2-33

/COMMAND qualifier

- ANALYZE/ERROR_LOG command, *Error Logging*, 3-23, 3-26

See also /REPORT switch

Commands

- nonprivileged

- summary of, MCR, 1-5

- privileged

- summary of, MCR, 1-5

- summary of MCR, MCR, 1-5 to 1-7

Command string

- RMSBCK utility, *RMS-11 Utilities*, 6-2 to 6-3

- RMSCNV utility, *RMS-11 Utilities*, 4-3 to 4-4

- RMSDEF utility, *RMS-11 Utilities*, A-5

- RMSIFL utility, *RMS-11 Utilities*, 3-2 to 3-3

- RMSRST utility, *RMS-11 Utilities*, 7-2 to 7-3

Command string checking (RMSIFL), *RMS-11 Utilities*, 3-9

Command string examples (IAS), *MACRO-11*, 7-13

Command string format (IAS), *MACRO-11*, 7-11

Command String Interpreter

See CSI

Command syntax

- VMR, *System Management*, 5-4

- continuation lines, *System Management*, 5-5

- entering comments, *System Management*, 5-5

- keywords

- overview, *System Management*, 5-4

- parameters, *System Management*, 5-4

Command utility

- messages, *RMS-11 Utilities*, C-1

COMMAN symbol, *Indirect*, 2-30

Comma separator (,)

See Separator

Comment, *Indirect*, 1-7, 2-4

- delimiter for, MCR, 1-3

- including in command line, MCR, 1-3

Comment character in batch jobs

- format, *Batch and Queue*, 3-12

Comment field

- begins with semicolon (;), *MACRO-11*, 1-4

- definition of, *MACRO-11*, 1-4

- using .REM, *MACRO-11*, 5-13

- valid characters, *MACRO-11*, 1-4

Common

- checkpointing, MCR, 3-100; *System Management*, 5-26

- device, MCR, 3-102, 3-175

- See Device common

- directive

- fixing, *System Management*, 5-18

- displaying, *DCL*, 7-73 to 7-74

- installing, MCR, 3-100; *System Management*, 5-26

- memory image, MCR, 3-102

- name, MCR, 3-130; *System Management*, 5-33

- partition, MCR, 3-130

- read/write, MCR, 3-130; *System Management*, 5-33

- read-only, MCR, 3-130; *System Management*, 5-33

- protecting, *System Management*, 5-23

- read/write

- checkpointing, MCR, 3-100; *System Management*, 5-26

- read-only

- installing, MCR, 3-100; *System Management*, 5-26

Common (cont'd.)

- reinstalling, *MCR*, 3-102
- resident
 - See Resident common
- shared
 - See Shared common
- status flags, *DCL*, 7-73 to 7-74
- synchronizing task use, *System Management*, 5-25
- task sharing, *System Management*, 5-25
- unfixing, *System Management*, 5-80
- Common Block Directory, *MCR*, 3-94
 - See also CBD
 - displaying, *MCR*, 3-39
 - removing regions, *MCR*, 3-135
- COMMON BLOCK DIRECTORY command, *MCR*, 3-39
 - brief description, *MCR*, 1-6
 - examples, *MCR*, 3-40
 - format, *MCR*, 3-39
 - parameters, *MCR*, 3-39
 - /TASKS keyword, *MCR*, 3-40
- Common Block Directory dump, *Crash Dump Analyzer*, 3-29
- Common directive, *Writing I/O Driver*, 1-20
- Common event flag, *Executive*, 2-2
 - reading, *Executive*, 5-184
- COMMON option, *Task Builder*, 5-16, 12-12
- Common region, *MCR*, 3-63
 - accessing, *MCR*, 3-98
 - checkpointing, *Executive*, 5-45
 - code libraries, *System Management*, 1-1
 - data commons, *System Management*, 1-1
 - displaying, *MCR*, 3-39
 - installed, *MCR*, 3-97
 - protecting, *MCR*, 3-97
 - removing, *MCR*, 3-135
 - shuffling, *System Management*, 1-4, 8-20
 - status, *MCR*, 3-40
 - status bits, *MCR*, 3-39
 - synchronizing, *MCR*, 3-99
 - tasks, *MCR*, 3-40
 - unfixing, *MCR*, 3-211
- Communication
 - function code list, *I/O Drivers*, B-12
 - parallel link, *I/O Drivers*, B-13
 - with other systems, *System Management*, 1-19
- Communications device
 - SYSGEN question, *System Generation*, 3-65
- Communications Executive
 - See CEX

Communications port

- connecting computer systems, *Utilities*, C-1
- setting, *Utilities*, C-3
- setting terminal characteristics, *Utilities*, C-1
- Communications support
 - SYSGEN question, *System Generation*, 3-27
- Compaction (memory)
 - definition, *System Management*, 1-4
- COMPAREDATA command
 - IOX, *System Management*, 12-19
 - error report, *System Management*, 12-19
 - FILES11 command line, *System Management*, 12-19
 - initial default, *System Management*, 12-19
 - SELECT command line, *System Management*, 12-19
- \$COMPARE macro, *RMS-11 Macro*, 2-16, 2-17
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11, 7-15
- /COMPARE qualifier
 - BRU utility, *Utilities*, 3-13
- Compatibility mode
 - building task, *Task Builder*, 10-9, 11-22
- /COMPATIBLE qualifier, *Task Builder*, 11-22
- Compilation path
 - control file module, *Error Logging*, 4-11
- Compiler, *Introduction*, 5-3
 - See High-level language
- Compiler literal declaration, *Error Logging*, 4-11
- Complement operator (^C), *MACRO-11*, 5-29
 - See also ^C operator
- Completion handler, *RMS-11 Macro*, 2-18
- Completion return macro
 - declaring, *RMS-11 Macro*, C-2
- Completion routine, *Task Builder*, 8-2
 - specifying, *Task Builder*, 12-11
 - user-written, *Task Builder*, 8-25
- Completion symbol
 - declaring, *RMS-11 Macro*, C-3
- Compound test, *Indirect*, 2-71
- Compressing deleted records, *RMS-11 User's Guide*, 5-10, 5-16, 6-7, 6-9
- Compression
 - RMSIFL utility, *RMS-11 Utilities*, 3-11

- /COMPRESS qualifier
 - LIBRARY command, *Program Development*, 6-10
- CON argument
 - cannot share data, *MACRO-11*, 5-38
 - for .PSECT, *MACRO-11*, 5-35
 - if section ends with odd address, *MACRO-11*, 5-39
- /CONCATENATE qualifier, *Task Builder*, 11-23
- Concatenating files, *Program Development*, 4-4
- Concatenation Character command
 - EDI editor, *Utilities*, 7-20
- CON command
 - VMR
 - definition, *System Management*, 5-12
 - examples, *System Management*, 5-13 to 5-15
 - formats, *System Management*, 5-12
 - keywords
 - CONTROLLERS, *System Management*, 5-12
 - CPU, *System Management*, 5-13
 - FULL, *System Management*, 5-13
 - UNITS, *System Management*, 5-13
 - parameters, *System Management*, 5-12
- CON commands
 - abbreviating, *System Management*, 4-7
 - BUILD, *System Management*, 4-8, 4-10
 - CLEAR, *System Management*, 4-8, 4-11
 - descriptions, *System Management*, 4-7 to 4-32
 - DISPLAY, *System Management*, 4-8, 4-12
 - entering, *System Management*, 4-7
 - ESTATUS, *System Management*, 4-8, 4-15
 - HELP, *System Management*, 4-8, 4-17
 - IDENT, *System Management*, 4-8, 4-18
 - LINK, *System Management*, 4-8, 4-19
 - LIST, *System Management*, 4-8, 4-20
 - OFFLINE, *System Management*, 4-8, 4-22
 - OFFLINE MEMORY, *System Management*, 4-25
 - ONLINE, *System Management*, 4-8, 4-26
 - ONLINE MEMORY, *System Management*, 4-28
 - SET, *System Management*, 4-8, 4-29
 - storing command sequence, *System Management*, 4-20
 - summary, *System Management*, 4-7
 - SWITCH, *System Management*, 4-8, 4-31
 - UNLINK, *System Management*, 4-8, 4-32

- Concurrent I/O, *Writing I/O Driver*, 1-14
- Condition
 - high pool, *System Management*, 8-3
 - low pool, *System Management*, 8-3
- Conditional assembly directive, *Writing I/O Driver*, 4-2; *MACRO-11*, 5-44
 - .IF, *MACRO-11*, 5-44
 - .IFF, *MACRO-11*, 5-46
 - .IFT, *MACRO-11*, 5-46
 - .IFTF, *MACRO-11*, 5-46
 - .IIF, *MACRO-11*, 5-48
- Conditional declaration
 - CFL, *Error Logging*, 5-28 to 5-30
- Conditional fork, *Writing I/O Driver*, 1-19
 - necessity, *Writing I/O Driver*, 1-19
 - <CONFIG> symbol, *Indirect*, 2-22
- Configuration
 - See also Device state
 - IOX test, *System Management*, 12-20
 - nonstandard, *System Generation*, 5-34; *System Management*, 4-2
 - peripheral
 - choosing at system generation, *Writing I/O Driver*, 5-10
- CONFIGURATION command
 - VMR
 - See CON command
- Configuration data file
 - See SYSPARAM.DAT configuration data file
- Configuration Program
 - See CNF
- Configuration worksheet, *System Generation*, A-1
- CONFIGURE command
 - IOX, *System Management*, 12-20
 - device type
 - default values, *System Management*, 12-20
 - specifying, *System Management*, 12-20
 - display command, *System Management*, 12-20
 - example, *System Management*, 12-21
 - examples, *System Management*, 12-21
 - logical names, *System Management*, 12-20
 - parameter command, *System Management*, 12-20

CONFIGURE command (cont'd.)

- IOX test configuration, *System Management*, 12-4
 - examples, *System Management*, 12-5
- CON interface, *System Management*, 4-4
 - error messages, *System Management*, 4-33 to 4-36
 - format, *System Management*, 4-33
 - invoking, *System Management*, 4-6
 - direct task format, *System Management*, 4-6
 - indirect command file, *System Management*, 4-7, 4-20
 - interactively, *System Management*, 4-6
- Connect directive, *Executive*, 5-42
- Connectivity mask, *Writing I/O Driver*, 1-19
- \$CONNECT macro, *RMS-11 Macro*, 5-6
- CONNECT operation, *RMS-11 Macro*, 5-6, 5-7; *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - BDB requirement, *RMS-11 Macro*, 2-8
 - \$CONNECT macro, *RMS-11 Macro*, 5-6
 - I/O buffer requirement, *RMS-11 Macro*, 2-7
 - indexed files, *RMS-11 User's Guide*, 7-2
 - IRAB requirement, *RMS-11 Macro*, 2-5
 - key buffer requirement, *RMS-11 Macro*, 2-6
 - record stream, *RMS-11 Macro*, 4-8
 - relative files, *RMS-11 User's Guide*, 4-7
 - sequential files, *RMS-11 User's Guide*, 3-7
- Connect to Interrupt Vector directive, *Executive*, 5-24
- Console
 - displaying current assignment, *System Management*, 9-5
- CONSOLE.LOG file, *System Management*, 9-6
 - as default log file, *System Management*, 9-5
- Console driver
 - SYSGEN question, *System Generation*, 3-28
- Console listing device
 - See CL device
- Console Logger, *System Management*, 9-1
 - communication with, *System Management*, 9-3
 - description, *System Management*, 1-14
 - messages
 - length, *System Management*, 9-4
 - task communication, *System Management*, 9-3
- Console Logging
 - commands
 - format, *System Management*, 9-4

Console Logging

commands (cont'd.)

- functions, *System Management*, 9-4
- command summary, *System Management*, 9-3
- default log file, *System Management*, 9-6
- displaying CO assignment, *System Management*, 9-5
- displaying log file assignment, *System Management*, 9-5
- error messages, *System Management*, 9-14 to 9-15
- installing COT, *System Management*, 9-2
- loading CODRV, *System Management*, 9-2
- log file
 - changing specification, *System Management*, 9-7
 - creating a new version, *System Management*, 9-7
 - disabling, *System Management*, 9-8
 - example, *System Management*, 9-10
 - reading, *System Management*, 9-10
 - reassigning, *System Management*, 9-6
- sample session, *System Management*, 9-10
- starting, *System Management*, 9-5
- stopping, *System Management*, 9-5
- using multiple commands, *System Management*, 9-8
- writing to CO, *System Management*, 9-4
- Console output device
 - See CO device
- /CONSOLE qualifier
 - INITIALIZE/PROCESSOR command, *System Management*, 3-20
- Console switch register
 - obtaining contents, *Executive*, 5-138
- Console terminal
 - default assignment, *System Management*, 9-6
 - disabling, *System Management*, 9-6
 - reassigning, *System Management*, 9-6
- Constant register
 - See C register
- Container file
 - RMSBCK utility, *RMS-11 Utilities*, 6-1, 6-3, 6-7
 - RMSDSP utility, *RMS-11 Utilities*, 5-1, 5-3 to 5-4
 - detailed display, *RMS-11 Utilities*, 5-4
 - RMSRST utility, *RMS-11 Utilities*, 7-3, 7-9 to 7-10

CON task, MCR, 3-103; *System Management*, 1-12 ; *Writing I/O Driver*, 1-24, 5-2, 5-7, 5-8, 5-9
 overview, *Writing I/O Driver*, 1-24

CONTEXT
 CFL named variable, *Error Logging*, 5-9

Context, *RMS-11 User's Guide*, 1-9, 1-15
 block, *RMS-11 Intro*, 4-7
 readable block, *RMS-11 Intro*, 4-7
 writeable block, *RMS-11 Intro*, 4-7
 block stream, *RMS-11 Macro*, 4-12

CONNECT operation, *RMS-11 User's Guide*, 3-7, 4-7, 7-2

current-record, *RMS-11 Macro*, 4-3;
RMS-11 User's Guide, 1-15; *RMS-11 Intro*, 4-5

DELETE operation, *RMS-11 User's Guide*, 4-7, 7-3

DISCONNECT operation, *RMS-11 User's Guide*, 3-7, 4-8

FIND operation, *RMS-11 User's Guide*, 3-8, 4-8, 7-3

FLUSH operation, *RMS-11 User's Guide*, 3-9, 4-10, 7-5

GET operation, *RMS-11 User's Guide*, 3-10, 4-11, 7-5

next-record, *RMS-11 Macro*, 4-3; *RMS-11 User's Guide*, 1-9, 1-15; *RMS-11 Intro*, 4-5

PUT operation, *RMS-11 User's Guide*, 3-11, 4-11, 7-6

record stream, *RMS-11 Macro*, 4-2

REWIND operation, *RMS-11 User's Guide*, 3-11, 4-12, 7-6

TRUNCATE operation, *RMS-11 User's Guide*, 3-12

UPDATE operation, *RMS-11 User's Guide*, 3-13, 4-12, 7-6

Context block, *Executive*, 5-109, 5-220

Context status flag, *System Management*, 4-13

Contiguity, *RMS-11 User's Guide*, 1-19, 8-12
 indexed files, *RMS-11 User's Guide*, 6-13
 relative files, *RMS-11 User's Guide*, 4-4
 RMSCNV utility, *RMS-11 Utilities*, 4-2
 RMSDEF utility, *RMS-11 Utilities*, A-15
 RMSIFL utility, *RMS-11 Utilities*, 3-1, 3-6
 sequential files, *RMS-11 User's Guide*, 3-5
 virtual, *RMS-11 Intro*, 2-3

CONTIGUOUS
 RMSDES utility
 area section, *RMS-11 Utilities*, 2-46
 file section, *RMS-11 Utilities*, 2-35

Contiguous KRB and SCB, *Writing I/O Driver*, 2-7, 4-48

Continuation bucket, *RMS-11 User's Guide*, 5-5

Continuation line
 CLI, *System Management*, 17-4
 example, MCR, 1-3; *System Management*, 5-5
 use in a command line, MCR, 1-3; *System Management*, 5-5

CONTINUE command, *DCL*, 7-21 to 7-22, 9-8
 See also ON and IF commands
 format, *Batch and Queue*, 3-9
 Shadow Recording, *System Management*, 16-8

/CONTINUE qualifier
 START/PROCESSOR command, *System Management*, 3-37

Contradictory Bit Mask
 See CBM

CONTROL _C command
 IOX, *System Management*, 12-22
 Command mode, *System Management*, 12-9

CTRL/C
 disabling, *System Management*, 12-22
 effect on, *System Management*, 12-22
 enabling, *System Management*, 12-22

Execution mode, *System Management*, 12-9

initial default, *System Management*, 12-22

CONTROL _FIELD_SIZE
 RMSDES utility, *RMS-11 Utilities*, 2-37

Control and status register
 See CSR

Control block, *RMS-11 Macro*, 1-2; *RMS-11 User's Guide*, 1-14, 2-2; *RMS-11 Intro*, 4-7
 ALL, *RMS-11 Intro*, 4-8
 chaining, *RMS-11 Macro*, 2-13
 DAT, *RMS-11 Intro*, 4-8
 declaring, *RMS-11 Macro*, 2-8
 examining, *RMS-11 Macro*, 2-16
 FAB, *RMS-11 Intro*, 4-8
 initializing, *RMS-11 Macro*, 2-7
 KEY, *RMS-11 Intro*, 4-8

- Control block (cont'd.)
 - NAM, *RMS-11 Intro*, 4-8
 - PRO, *RMS-11 Intro*, 4-8
 - RAB, *RMS-11 Intro*, 4-8
 - setting up, *RMS-11 Macro*, 2-11
 - SUM, *RMS-11 Intro*, 4-8
- Control block field
 - See Field
- Control character, MCR, 2-15 to 2-17
 - TTDRV
 - escape sequence, *I/O Drivers*, 2-75
- Control commands
 - IOX
 - description, *System Management*, 12-6
- Control directive
 - .IDENT, *MACRO-11*, 5-11
 - listing, *MACRO-11*, 5-12, 5-13
 - overriding with command line options, *MACRO-11*, 5-8
 - .SBTTL, *MACRO-11*, 5-10
 - table of arguments, *MACRO-11*, 5-7
 - .TITLE, *MACRO-11*, 5-9
- Control event
 - error logging, *Error Logging*, 4-4
- Control file
 - definition, *Error Logging*, 4-2
 - error log, *Error Logging*, 3-1, 3-2
 - universal library, *Error Logging*, 5-1
- Control File Language
 - See CFL
- Control file module, *Error Logging*, 1-3, 1-5
 - architecture, *Error Logging*, 4-2
 - CFL, *Error Logging*, 5-1
 - compilation path, *Error Logging*, 4-11
 - CPU-level, *Error Logging*, 4-7
 - universal, *Error Logging*, 4-7
 - definition, *Error Logging*, 4-2
 - device-level, *Error Logging*, 4-7 to 4-9
 - DIGITAL-supplied, *Error Logging*, 1-5, A-5
 - error log, *Error Logging*, 3-1, 3-27
 - general format, *Error Logging*, 5-3
 - interaction, *Error Logging*, 4-12 to 4-15
 - modifying, *Error Logging*, 4-12
 - non-DIGITAL device, *Error Logging*, 4-27
 - program control flow, *Error Logging*, 4-9
 - recompiling, *Error Logging*, 4-12
 - summary, *Error Logging*, 4-4 to 4-7
 - table of, *Error Logging*, 2-7 to 2-8
 - universal library
 - See ERRLOG.ULB
 - user-written, *Error Logging*, 1-5
- Control function mask, *Writing I/O Driver*, 4-18, 4-19
- Control information code
 - event-level dispatching, *Error Logging*, 4-16
- Control key, MCR, 2-15
 - See CTRL key
- Controller, *Writing I/O Driver*, 1-4
 - access, *Writing I/O Driver*, 1-11
 - delayed, *Writing I/O Driver*, 1-12
 - dual support, *Writing I/O Driver*, 1-12
 - access list, *Writing I/O Driver*, 2-2
 - ACFPAR.DAT record format, *System Generation*, 5-34; *System Management*, 4-2
 - activating with ONLINE command, *System Management*, 4-26
 - allowing parallel operations, *Writing I/O Driver*, 2-2
 - assignment, *Writing I/O Driver*, 1-12
 - busy/not busy, *Writing I/O Driver*, 1-12
 - configuration status for, *Writing I/O Driver*, 2-2
 - DD-type
 - SYSGEN question, *System Generation*, 3-51
 - DECtape II
 - SYSGEN question, *System Generation*, 3-51
 - defining type, *Writing I/O Driver*, 2-1
 - definition (XEDRV), *I/O Drivers*, 10-26
 - group number, *Writing I/O Driver*, 1-5
 - I/O count, *Writing I/O Driver*, 1-12, 1-14
 - interrupts, *Writing I/O Driver*, 1-12
 - interrupt vector, *Writing I/O Driver*, 1-7
 - 2-level controllers, *Writing I/O Driver*, 1-14
 - location of a CSR for a, *Writing I/O Driver*, 2-2
 - maintaining hardware-specific information for, *Writing I/O Driver*, 2-2
 - making accessible, *Writing I/O Driver*, 5-6
 - mnemonic format, *System Generation*, 3-35
 - MSCP-type
 - SYSGEN question, *System Generation*, 3-45
 - name, *Writing I/O Driver*, 2-1
 - number, *Writing I/O Driver*, 1-5
 - placing on line, *Writing I/O Driver*, 5-7
 - reassignment, *Writing I/O Driver*, 1-12
 - and load sharing, *Writing I/O Driver*, 1-12

- Controller (cont'd.)
 - RH-type
 - SYSGEN question, *System Generation*, 3-36
 - RK11
 - SYSGEN question, *System Generation*, 3-41
 - RK611/711
 - SYSGEN question, *System Generation*, 3-42
 - RL11/RLV11
 - SYSGEN question, *System Generation*, 3-43
 - RP11
 - SYSGEN question, *System Generation*, 3-44
 - RX11
 - SYSGEN question, *System Generation*, 3-50
 - RX211/RXV21
 - SYSGEN question, *System Generation*, 3-50
 - status, *Writing I/O Driver*, 1-12
 - subcontroller device, *Writing I/O Driver*, 1-14
 - block, *Writing I/O Driver*, 1-14
 - supporting more than one device, *Writing I/O Driver*, 1-13
 - TC11 DECtape
 - SYSGEN question, *System Generation*, 3-49
 - TM/TMA/TMB11
 - SYSGEN question, *System Generation*, 3-54
 - TU58
 - SYSGEN question, *System Generation*, 3-51
- Controller failure, *System Management*, 11-4
- Controller Request Block
 - See KRB
- Controller request queue, *Writing I/O Driver*, 1-12, 2-2
- Controller status change
 - entry point, *Writing I/O Driver*, 4-62, 4-63
 - overview, *Writing I/O Driver*, 2-6
- Controller status extension 2, *Writing I/O Driver*, 4-39
- Controller status extension 3, *Writing I/O Driver*, 4-37
- Controller table
 - See CTB
- Controller Table Block
 - See CTB
- Controller table status byte, *Writing I/O Driver*, 4-53
- Control statement
 - CFL, *Error Logging*, 5-31 to 5-36
- Control task tape, *I/O Operations*, G-9
- Control-Z mode, *Indirect*, 2-53
- Conversion
 - See also ASCII number conversion
 - See also Binary conversion
 - See also Date conversion
 - See also Decimal conversion
 - See also Octal conversion
 - See also Radix-50 conversion
 - See also Time conversion
 - A/D input to floating point (K-series), *I/O Drivers*, 13-12
 - UIC
 - ASCII/binary, *I/O Operations*, 4-7
 - unsigned integer (K-series), *I/O Drivers*, 13-18
- Conversion routine, *Writing I/O Driver*, 1-17
- CONVERT command, DCL, 4-53 to 4-58, 9-8
- Converting file, *RMS-11 User's Guide*, 1-10, 1-12
- COP attribute, *System Management*, 18-35
- °C operator
 - in command line, *MACRO-11*, 5-29
 - one's complement operator, *MACRO-11*, 5-29
- /COPIES file qualifier
 - PRINT command, *Batch and Queue*, 2-3
 - SET QUEUE command, *Batch and Queue*, 2-19
- COPY command, *Program Development*, 4-3; *Utilities*, C-7; DCL, 4-45 to 4-49, 9-9; *Introduction*, 3-4
- EDT editor, *Introduction*, 2-17
- example, *Utilities*, C-8
- /REMOTE option, *Utilities*, C-8
- COPY key, DCL, 3-15
- CORAL.MAC file, *System Management*, 8-2
 - pool monitoring interface, *System Management*, 8-2
- CORIMG.SYS file
 - See Checkpoint file
- Coroutine statement
 - user-written module, *Error Logging*, 4-32
- Correction files
 - layered product, *System Generation*, 2-26 to 2-27

- /CO subswitch
 - PIP utility, *Utilities*, 12-37
- /CO switch, *Task Builder*, 10-10
- CMP utility, *Utilities*, 4-3
- file
 - PRI command, *Batch and Queue*, 2-3
 - QUE /MOD command, *Batch and Queue*, 2-19
- FLX utility, *Utilities*, 8-7
- job
 - PRI command, *Batch and Queue*, 2-3
 - QUE /MOD command, *Batch and Queue*, 2-19
- LBR utility, *Utilities*, 10-12
- \$COTB (Octal to binary), *System Library*, 4-6
- /COTERM option
 - SET /COLOG command, *System Management*, 9-6
- Co-tree, *Task Builder*, 3-32
 - creating statement, *Task Builder*, 3-42
- COT task, *System Management*, 1-14, 9-1
 - aborting, *System Management*, 9-5
 - installing, *System Management*, 9-2
 - reasons for, *System Management*, 9-2
 - redirecting CO, *System Management*, 9-9
- COUNT
 - CFL named variable, *Error Logging*, 5-9
- /CPB, *Crash Dump Analyzer*, 2-4, 2-5
- CPCR\$ directive, *Executive*, 5-45
- /CPR subkeyword
 - COMMAND LINE INTERPRETER
 - command, *MCR*, 3-42
- /CP switch, *Task Builder*, 10-11
- CPU, *Introduction*, 6-5, 6-6
- CPU affinity
 - removing, *Executive*, 5-190
 - setting, *Executive*, 5-265
- CPU-detected error code
 - event-level dispatching, *Error Logging*, 4-16
- CPU interval
 - displaying, *System Management*, 7-19
 - transaction file, *System Management*, 10-16
- /CPU keyword
 - OPENREGISTER command, *MCR*, 3-127
- CPU-level module, *Error Logging*, 4-7, 4-11, A-6
- Cpu parameter
 - UNIBUS switch driver
 - device-specific, *I/O Drivers*, 14-4
 - IO.CON function, *I/O Drivers*, 14-5
- CPU tick
 - displaying, *System Management*, 7-19
- CR11 card reader, *I/O Drivers*, 9-1
- Crash, *Introduction*, 1-19
 - See System failure
 - cause
 - determining, *Crash Dump Analyzer*, 4-1
 - HALT, *Crash Dump Analyzer*, 1-5
 - HALT instruction, *Crash Dump Analyzer*, 1-4
 - infinite loop, *Crash Dump Analyzer*, 1-4, 1-5
 - processor trap, *Crash Dump Analyzer*, 1-4
 - restart procedure, *Crash Dump Analyzer*, 1-4
- CRASH_REASON parameter
 - START/ACCOUNTING command, *System Management*, 10-5
- /CRASHDEV keyword
 - SET command, *MCR*, 3-161
- Crash dump
 - obtaining, *Crash Dump Analyzer*, 1-4
- Crash dump analysis, *Writing I/O Driver*, 6-1
- Crash Dump Analyzer
 - See CDA
 - Crash dump binary file, *Crash Dump Analyzer*, 1-5, 1-6, 2-2
 - Crash dump device, *Crash Dump Analyzer*, 1-1, 1-5
 - displaying current one, *Crash Dump Analyzer*, 1-3
 - invalid, *Crash Dump Analyzer*, 1-5
 - limitations, *Crash Dump Analyzer*, 1-2
 - loadable, *Crash Dump Analyzer*, 1-2
 - pregenerated kit, *System Generation*, 5-49
 - restrictions, *Crash Dump Analyzer*, 1-2
 - selecting, *Crash Dump Analyzer*, 1-3
 - specifying, *Crash Dump Analyzer*, 2-2
 - SYSGEN question, *System Generation*, 3-32
 - valid for RSX-11M/M-PLUS system, *Crash Dump Analyzer*, 1-2
 - valid for Micro/RSX system, *Crash Dump Analyzer*, 1-2
 - valid for pregenerated RSX-11M-PLUS system, *Crash Dump Analyzer*, 1-2
- Crash dump driver, *Crash Dump Analyzer*, 1-1
 - procedure, *Crash Dump Analyzer*, 1-5
 - unloading, *Crash Dump Analyzer*, 1-4
- Crash dump listing
 - See also Analysis listings
 - interpreting, *Crash Dump Analyzer*, 4-1 to 4-3

- Crash dump listing
 - interpreting (cont'd.)
 - mapping data, *Crash Dump Analyzer*, 4-1
 - stack depth, *Crash Dump Analyzer*, 4-2
- Crash notification device, *Crash Dump Analyzer*, 1-1, 1-2, 1-5
- Crash Recovery Transaction Block, *System Management*, 10-37
- CRASH statement
 - CFL, *Error Logging*, 5-40
- \$CRAVL, *Crash Dump Analyzer*, 3-12, 3-36
- CRAW\$ directive, *Executive*, 5-48
- CRE argument to ORG\$ macro, *RMS-11 Macro*, 2-3
- Create Address Window directive, *Executive*, 5-47
- CREATE command, *DCL*, 4-14 to 4-15, 9-9; *Introduction*, 2-1, 3-5
- CREATE/DIRECTORY, *DCL*, 4-16 to 4-18, 9-10
- RMSDES utility, *RMS-11 Utilities*, 2-7, 2-18, 2-28, 2-31
 - defining areas by default, *RMS-11 Utilities*, 2-44
 - defining areas explicitly, *RMS-11 Utilities*, 2-43
- INDEX_AREA attribute, *RMS-11 Utilities*, 2-41
- key numbering, *RMS-11 Utilities*, 2-38
- LEVEL_INDEX_AREA
 - attribute, *RMS-11 Utilities*, 2-41
 - setting attributes, *RMS-11 Utilities*, 2-21
 - with GET, *RMS-11 Utilities*, 2-10, 2-25
- /CREATED qualifier
 - BRU utility, *Utilities*, 3-13
 - option
 - AFTER, *Utilities*, 3-13
 - BEFORE, *Utilities*, 3-13
- Create Group Global Event Flags directive, *Executive*, 5-51
- Create Logical Name directive, *Executive*, 5-36
 - ASSIGN command, *MCR*, 3-15
- \$CREATE macro, *RMS-11 Macro*, 5-9
- \$CLOSE macro, *RMS-11 Macro*, 5-3
- CREATE operation, *RMS-11 Macro*, 3-9, 5-9, 5-10, 5-11, 5-12, 5-14, 5-15, 5-16, 5-17, 5-18, 5-19, 5-20, 5-21; *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
- CREATE operation (cont'd.)
 - and shared access, *RMS-11 User's Guide*, 2-6
 - BDB requirement, *RMS-11 Macro*, 2-7
 - \$CREATE macro, *RMS-11 Macro*, 5-9
 - declaring with ORG\$ macro, *RMS-11 Macro*, 2-3
 - I/O buffer requirement, *RMS-11 Macro*, 2-7
 - IFAB requirement, *RMS-11 Macro*, 2-5
 - remote access, *RMS-11 User's Guide*, B-2 to B-3
- CREATE option
 - ACNT, *System Management*, 2-3
 - MOUNT /CACHE command, *MCR*, 3-111
 - SET /CACHE command, *MCR*, 3-159
- /CREATE qualifier
 - LIBRARY command, *Program Development*, 6-2, 6-4
- Create Region directive, *Executive*, 5-53
- Create Virtual Terminal directive, *Executive*, 5-56
- Creating Image File section, *System Generation*, 3-81 to 3-83
- CREF
 - See Cross-reference listing
- C register, *Debugging*, 2-6, 5-3; XDT, 2-12
- indicator, *Debugging*, 2-7, 7-3; XDT, 2-13
- /CRE keyword
 - FLA command, *MCR*, 3-65
- CRF argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
 - with RT-11, *MACRO-11*, 8-6
- CRF utility, *Program Development*, 1-9; *MACRO-11*, 7-14
 - assembly cross-reference, *Program Development*, 3-7
 - /CRO switch, *Utilities*, B-1, B-2
 - data processing, *Utilities*, B-1
 - error messages, *Utilities*, B-7
 - file
 - listing, *Utilities*, B-2
 - object, *Utilities*, B-2
 - symbol table, *Utilities*, B-2, B-3
 - task image, *Utilities*, B-2
 - global cross-reference, *Program Development*, 4-5, 4-6
 - MACRO-11*, *Utilities*, B-1, B-2
 - messages, *Utilities*, B-6
 - options with RT-11, *MACRO-11*, 8-7
 - SEND packet, *Utilities*, B-2, B-5
 - /SP switch, *Utilities*, B-3

CRF utility (cont'd.)

- TKB, *Utilities*, B-1, B-2
- CRGF\$ directive, *Executive*, 5-51
- /CROSS_REFERENCE qualifier, *Task Builder*, 11-24
- LINK command, *Program Development*, 4-5
- MACRO command, *Program Development*, 1-9, 3-7
- .CROSS directive, *MACRO-11*, 5-15
 - relationship to /C[R] or /CROSS option, *MACRO-11*, 5-16
 - summary, *MACRO-11*, 5-1
- Cross-reference
 - LINK command, *Program Development*, 4-5
 - listing
 - assembly, *Program Development*, 3-7
 - global, *Program Development*, 4-5, 4-6
 - TKB, *Program Development*, 4-6
- Cross-reference listing
 - example, *Task Builder*, 10-12 to 10-14, 11-25 to 11-26
 - map file, *Task Builder*, 10-12, 11-24
 - sample, *MACRO-11*, H-1
- Cross-Reference Processor
 - See CRF utility
 - See CRP
- Cross-reference processor option, *MACRO-11*, 7-14
- Cross-reference table
 - special symbols, *MACRO-11*, 7-15
- /CRO switch
 - CRF utility, *Utilities*, B-1, B-2
- CRP, *Batch and Queue*, 3-23; *System Management*, 3-2
 - error recovery, *Batch and Queue*, 3-27
 - operation, *Batch and Queue*, 3-26
- \$CRPKT Executive routine, *Error Logging*, 4-25
- CRRG\$ directive, *Executive*, 5-53
- /CR switch, *Task Builder*, 10-12
 - LBR utility, *Program Development*, 6-2, 6-5; *Utilities*, 10-13
 - MAC command, *Program Development*, 3-7
 - TKB, *Program Development*, 1-9, 4-6
- CRT, *I/O Drivers*, 2-7
 - rubout (TTDRV), *I/O Drivers*, 2-21
- /CRT keyword
 - SET command, *MCR*, 3-161
 - SET command (VMR), *System Management*, 5-53
- CRVT\$ directive, *Executive*, 5-60
- .CSECT directive, *MACRO-11*, 5-39

.CSECT directive (cont'd.)

- assigns attributes to current location
 - counter, *MACRO-11*, 2-12
 - default characteristics, *MACRO-11*, 5-40
 - special case of .PSECT, *MACRO-11*, 5-39
 - summary, *MACRO-11*, 5-2
 - terminates local symbol block, *MACRO-11*, 2-10
- CSI, *I/O Operations*, 6-1
- expanding file specification, *I/O Operations*, 6-18
 - initializing control block, *I/O Operations*, 6-18
 - parsing file specification, *I/O Operations*, 6-18
- CSI\$1 macro
- command syntax analyzer, *I/O Operations*, 6-18
- CSI\$2 macro
- command semantic parser, *I/O Operations*, 6-19
 - initializing control block, *I/O Operations*, 6-18
 - parsing file specification, *I/O Operations*, 6-18
- CSI\$4 macro
- command semantic parser, *I/O Operations*, 6-21
 - expanding file specification, *I/O Operations*, 6-18
- CSI\$ macro, *I/O Operations*, 6-14
- CSI\$ND macro, *I/O Operations*, 6-22
- defining end of descriptor table, *I/O Operations*, 6-29
- CSI\$SV macro, *I/O Operations*, 6-22
- creating switch value descriptor table entry, *I/O Operations*, 6-27
- CSI\$SW macro, *I/O Operations*, 6-22
- creating switch descriptor table entry, *I/O Operations*, 6-22
- CSI control block
- bit values definition, *I/O Operations*, 6-14
 - offsets definition, *I/O Operations*, 6-14
- CSI macro
- switch definition, *I/O Operations*, 6-22
- CSI routine, *I/O Operations*, 6-13
- CSI run-time macros, *I/O Operations*, 6-18
- CSM library, *Task Builder*, 8-7
- building, *Task Builder*, 8-7
 - converting from SCAL library, *Task Builder*, 8-23
 - dispatching, *Task Builder*, 8-23

- CSM library (cont'd.)
 - example, *Task Builder*, 8-9 to 8-19
 - linking task, *Task Builder*, 8-9
- CSR, *Writing I/O Driver*, 1-1
 - accessing, *Writing I/O Driver*, 1-1
 - address
 - boot device, *MCR*, 3-149
 - BRUSYS default, *System Generation*, 2-7
 - determining, *System Generation*, 3-35
 - floating assignment algorithm, *System Generation*, D-3
 - saving, *MCR*, 3-150
 - address space, *Writing I/O Driver*, 1-1
 - assignment
 - error, *Writing I/O Driver*, 5-8
 - setting, *Writing I/O Driver*, 5-7
 - changing address value, *System Management*, 4-29
 - definition, *System Generation*, 1-8
 - definition (XEDRV), *I/O Drivers*, 10-26
 - determining, *System Generation*, 2-1
- /CSR keyword
 - SAVE command, *MCR*, 3-149
- CSRQ\$ directive, *Executive*, 5-62
- /CS switch
 - PAT utility, *Utilities*, 11-2, 11-8
 - SLP utility, *Utilities*, 13-15
- /CTB
 - use in LOAD, *Writing I/O Driver*, 5-14
- CTB, *MCR*, 3-104; *Writing I/O Driver*, 1-4
 - composite arrangement, *Writing I/O Driver*, 2-16
 - definition, *Writing I/O Driver*, 1-4
 - details, *Writing I/O Driver*, 4-48, 4-49, 4-53
 - format, *Writing I/O Driver*, 4-49, 4-53
 - layout, *Writing I/O Driver*, 4-49
 - overview, *Writing I/O Driver*, 2-1
 - requirement, *Writing I/O Driver*, A-3
 - system list, *Writing I/O Driver*, 2-1
 - use in handling interrupts, *Writing I/O Driver*, 2-1
 - use in LOAD, *Writing I/O Driver*, 5-14
 - validation during LOAD, *Writing I/O Driver*, 5-11
- CTBDF\$, *Crash Dump Analyzer*, C-14
- /CTB keyword
 - LOA command (VMR), *System Management*, 5-29
 - LOAD command, *MCR*, 3-103
- /CTL, *Crash Dump Analyzer*, 2-4, 2-6
 - %CTL\$CLOSE function
 - CFL, *Error Logging*, 5-21
 - %CTL\$EOF function
 - CFL, *Error Logging*, 5-21
 - %CTL\$FILE_STATUS function
 - CFL, *Error Logging*, 5-21
 - %CTL\$INPUT function
 - CFL, *Error Logging*, 5-21
 - %CTL\$OPEN function
 - CFL, *Error Logging*, 5-21
 - %CTL\$STATUS function
 - CFL, *Error Logging*, 5-21
 - \$CTLST symbol, *Writing I/O Driver*, 2-16
 - CTRL/C, *MCR*, 2-16
 - causing an AST, *MCR*, 2-14
 - interrupting output, *MCR*, 2-14
 - invoking CLI prompt, *MCR*, 3-42
 - invoking the MCR prompt, *MCR*, 2-13
 - IOX
 - disabling in, *System Management*, 12-9
 - effect on, *System Management*, 12-22
 - enabling in, *System Management*, 12-9
 - entering Interactive mode, *System Management*, 12-10
 - ODT, *Debugging*, 1-6
- CTRL/C abort support
 - SYSGEN question, *System Generation*, 3-29
- CTRL/C character
 - TTDRV, *I/O Drivers*, 2-15, 2-70
 - aborting, *I/O Drivers*, 2-70
 - abort task, *I/O Drivers*, 2-19
 - directed to task, *I/O Drivers*, 2-70
 - excluding, *I/O Drivers*, 2-19
 - hold screen mode, *I/O Drivers*, 2-70
 - terminate read, *I/O Drivers*, 2-70
 - TF.RPT, *I/O Drivers*, 2-16
 - TF.RST, *I/O Drivers*, 2-17
- CTRL/C command, *Program Development*, 1-2
 - See CONTROL_C command
- CTRL/G sequence
 - messages to CO, *System Management*, 9-4
- CTRL/I, *MCR*, 2-16
- CTRL/I character
 - TTDRV, *I/O Drivers*, 2-70
- CTRL/J, *Debugging*, 4-4
- CTRL/J character
 - TTDRV, *I/O Drivers*, 2-70
- CTRL/K, *MCR*, 2-16
- CTRL/K character
 - TTDRV, *I/O Drivers*, 2-70
- CTRL/L, *MCR*, 2-16

- CTRL/L character
 - TTDRV, *I/O Drivers*, 2-71
- CTRL/M character
 - TTDRV, *I/O Drivers*, 2-71
- CTRL/O, MCR, 2-17
 - Command mode
 - IOX, *System Management*, 12-39
 - Interactive mode
 - IOX, *System Management*, 12-39
 - XDT, XDT, 2-14
- CTRL/O character
 - TTDRV, *I/O Drivers*, 2-15, 2-16, 2-71
 - canceling, *I/O Drivers*, 2-18, 2-20, 2-25, 2-29, 2-30, 2-50, 2-52
 - canceling on breakthrough write, *I/O Drivers*, 2-27
 - IO.RPR, *I/O Drivers*, 2-42
 - state, *I/O Drivers*, 2-61
 - TF.RPT, *I/O Drivers*, 2-16
 - TF.RST, *I/O Drivers*, 2-17
- CTRL/O command, *Program Development*, 3-6
- CTRL/P command, *Utilities*, C-5
- CTRL/Q, MCR, 2-17
- CTRL/Q character
 - TTDRV, *I/O Drivers*, 2-15
 - resume output, *I/O Drivers*, 2-71
 - state, *I/O Drivers*, 2-61
 - TF.RPT, *I/O Drivers*, 2-16
 - TF.RST, *I/O Drivers*, 2-17
- CTRL/Q command, *Program Development*, 3-6
- CTRL/R, MCR, 2-17
- CTRL/R character
 - TTDRV, *I/O Drivers*, 2-16, 2-71
 - carriage return, *I/O Drivers*, 2-71
 - line feed, *I/O Drivers*, 2-71
 - prompt, *I/O Drivers*, 2-16
 - redisplay, *I/O Drivers*, 2-27
 - automatic, *I/O Drivers*, 2-18
 - input, *I/O Drivers*, 2-20
 - retype, *I/O Drivers*, 2-20
 - TF.RPR, *I/O Drivers*, 2-16, 2-30
 - TF.RST, *I/O Drivers*, 2-17
- CTRL/S, MCR, 2-17
- CTRL/S character
 - TTDRV, *I/O Drivers*, 2-15, 2-71
 - breakthrough write, *I/O Drivers*, 2-20
 - state, *I/O Drivers*, 2-61
 - suspend output, *I/O Drivers*, 2-71
 - TF.RPT, *I/O Drivers*, 2-16
 - TF.RST, *I/O Drivers*, 2-17
- CTRL/S command, *Program Development*, 3-6
- CTRL/U, MCR, 2-17
 - ODT, *Debugging*, 2-7
- CTRL/U character
 - TTDRV, *I/O Drivers*, 2-16, 2-72
 - delete start of line, *I/O Drivers*, 2-72
 - prompt, *I/O Drivers*, 2-16
 - TF.RPR, *I/O Drivers*, 2-16, 2-30
 - TF.RST, *I/O Drivers*, 2-17
- CTRL/U command, *Program Development*, 5-3
- CTRL/X, MCR, 2-17
- CTRL/X character
 - TTDRV, *I/O Drivers*, 2-72, 2-74
 - clear type-ahead, *I/O Drivers*, 2-72
- CTRL/Z, MCR, 2-17
 - RMSBCK utility, *RMS-11 Utilities*, 6-2
 - RMSCNV utility, *RMS-11 Utilities*, 4-4
 - file terminator, *RMS-11 Utilities*, 4-8
 - RMSDES utility, *RMS-11 Utilities*, 2-2, 2-9, 2-18
 - RMSDSP utility, *RMS-11 Utilities*, 5-2
 - RMSIFL utility, *RMS-11 Utilities*, 3-2
 - RMSRST utility, *RMS-11 Utilities*, 7-2
- CTRL/Z character
 - TTDRV, *I/O Drivers*, 2-15, 2-72, 2-74
 - exit task, *I/O Drivers*, 2-72
 - TF.RPT, *I/O Drivers*, 2-16
- CTRL/Z command
 - EDI editor, *Utilities*, 7-21
- /CTRLC subkeyword
 - COMMAND LINE INTERPRETER
 - command, MCR, 3-42
- CTRL key, DCL, 3-18
 - CTRL/C, DCL, 3-19, 7-18 to 7-20;
 - Introduction*, 1-4
 - CTRL/G, DCL, 3-22
 - CTRL/I, DCL, 3-22
 - CTRL/K, DCL, 3-22
 - CTRL/L, DCL, 3-21
 - CTRL/M, DCL, 3-22
 - CTRL/O, DCL, 3-20; *Introduction*, 1-16
 - CTRL/Q, DCL, 3-19
 - CTRL/R, DCL, 3-21; *Introduction*, 1-9
 - CTRL/S, DCL, 3-19
 - CTRL/U, DCL, 3-20; *Introduction*, 1-9
 - CTRL/X, DCL, 3-21
 - CTRL/Z, DCL, 3-20; *Introduction*, 1-9, 1-10
- CTRL routine
 - control device, *I/O Operations*, 4-27

- .CTRL routine (cont'd.)
 - tape, *I/O Operations*, 5-7
- ^C unary operator
 - represents pressing CTRL/C in command lines, *MACRO-11*, 7-1
- Current location counter, *MACRO-11*, 2-11
 - cannot assign value with forward reference, *MACRO-11*, 2-12
 - change with direct assignment statement, *MACRO-11*, 2-11
 - changing attributes of, *MACRO-11*, 2-12
 - effect of odd value, *MACRO-11*, 5-31
 - list of statements that may leave as odd value, *MACRO-11*, 5-30
 - using to reserve space, *MACRO-11*, 2-12
- Current location counter symbol (.), *MACRO-11*, 2-11
 - assign new value to, *MACRO-11*, 2-11
 - in program sections, *MACRO-11*, 5-37
- Current location indicator, *XDT*, 2-10;
 - Debugging*, 7-3
- /CURRENT qualifier
 - SHOW ERROR_LOG command, *Error Logging*, 2-13
- Current-record context
 - See Context
- Cursor, *Introduction*, 1-4
 - control (TTDRV)
 - terminal-independent, *I/O Drivers*, 2-21, 2-81
 - position (TTDRV), *I/O Drivers*, 2-15
 - restore, *I/O Drivers*, 2-29, 2-48, 2-50
 - save, *I/O Drivers*, 2-29, 2-48, 2-50
- CUT function
 - EDT editor, *Introduction*, 2-9
- CVADF: subroutine
 - converting A/D input to floating point
 - K-series, *I/O Drivers*, 13-12
 - LADRV, *I/O Drivers*, 12-8
- \$CVLBN routine, *Writing I/O Driver*, 7-14
- \$CVLOK (Page lock), *System Library*, 8-31
- \$CVRL (Virtual to real address), *System Library*, 8-34
- \$CVTUC (Uppercase text), *System Library*, 6-1
- CXA16/CXB16/CXY08 line multiplexer
 - SYSGEN question, *System Generation*, 3-60
- CXA16 serial line multiplexer
 - TTDRV, *I/O Drivers*, 2-83
- CXB16 serial line multiplexer
 - TTDRV, *I/O Drivers*, 2-83

- CXY08 serial line multiplexer
 - TTDRV, *I/O Drivers*, 2-83
- Cylinder, *RMS-11 Intro*, 2-1
 - See also Placement control
- Cylinder crossed count, *System Management*, 10-8
- Cylinder number, *Writing I/O Driver*, 1-17
- Cylinder Scan
 - definition, *Writing I/O Driver*, 1-17

D

- D.xxx offsets
 - in DCB, *Writing I/O Driver*, 4-16 to 4-21
- D\$CUIC, *Indirect*, 2-5
- /D_LINES qualifier
 - FORTAN command, *Program Development*, 7-7
- DAP (data access protocol)
 - See DECnet
- DAPRES
 - remote access code, *RMS-11 User's Guide*, B-1
 - remote access support, *RMS-11 User's Guide*, 8-7
- D argument
 - for .PSECT, *MACRO-11*, 5-34
- /DA switch, *Task Builder*, 10-15
- TKB, *Program Development*, 5-2
- DASWP: subroutine
 - initiating synchronous D/A sweep
 - K-series, *I/O Drivers*, 13-12
 - LADRV, *I/O Drivers*, 12-8
- \$DAT (Date conversion)
 - alternate format, *System Library*, 6-4
 - standard format, *System Library*, 6-3
- Data
 - asynchronous, *Writing I/O Driver*, 1-16
 - sending to task, *Executive*, 5-222, 5-304
- DATA_AREA
 - RMSDES utility, *RMS-11 Utilities*, 2-40
- DATA_FILL
 - RMSDES utility, *RMS-11 Utilities*, 2-40
- Data access protocol (DAP)
 - See DECnet
- Database, *Writing I/O Driver*, 1-23
 - assembling during system generation, *Writing I/O Driver*, 5-4
- code
 - bit symbols, *Writing I/O Driver*, 4-28
 - converting RSX-11M to RSX-11M-PLUS, *Writing I/O Driver*, A-1, A-2

Database

- converting RSX-11M to RSX-11M-PLUS (cont'd.)
 - defining CTB, *Writing I/O Driver*, A-3
 - SCB requirements, *Writing I/O Driver*, A-2
 - creating source code, *Writing I/O Driver*, 4-2
 - defining link word for, *Writing I/O Driver*, 4-3
 - details of structures, *Writing I/O Driver*, 4-30 to 4-34, 4-44 to 4-48
 - driver
 - sample code, *Writing I/O Driver*, 8-1, 8-3
 - structures, *Writing I/O Driver*, 2-1, 2-3
 - global label, *Writing I/O Driver*, 4-2
 - \$USRTB, *Writing I/O Driver*, 4-3
 - \$xxDCB, *Writing I/O Driver*, 4-3
 - labeling of data structures, *Writing I/O Driver*, 4-2
 - loadable, *Writing I/O Driver*, 1-24, 4-3
 - incorporating, *Writing I/O Driver*, 5-1
 - module
 - inserting into library, *Writing I/O Driver*, 5-4
 - overview of structures, *Writing I/O Driver*, 2-3
 - owning CTB, *Writing I/O Driver*, 2-1
 - programming
 - requirements, *Writing I/O Driver*, 4-2 to 4-3
 - resident, *Writing I/O Driver*, 1-24, 4-3
 - incorporating, *Writing I/O Driver*, 5-1
 - linking to CTB, *Writing I/O Driver*, 4-3
 - structures
 - augmented, *Writing I/O Driver*, 1-14
 - composite arrangement, *Writing I/O Driver*, 2-12
 - conventional, *Writing I/O Driver*, 1-14
 - ordering of, *Writing I/O Driver*, 4-2
 - typical arrangements, *Writing I/O Driver*, 2-6, 2-7, 2-8
 - validation during LOAD, *Writing I/O Driver*, 5-11
- ## Data block
- dequeuing, *Executive*, 5-174, 5-176, 5-178, 5-296, 5-298, 5-300
 - local, *Program Development*, 2-8
 - queuing, *Executive*, 5-217, 5-302
- ## Data Cache Manager
- See DCM

- Data caching, MCR, 3-111 to 3-112, 3-159 to 3-160
 - deferred write requests, MCR, 3-111, 3-160
 - options, MCR, 3-111, 3-159
 - region, MCR, 3-111, 3-159
 - specifying partition, MCR, 3-111, 3-159
- Data caching support
 - SYSGEN question, *System Generation*, 3-27
- DATA command, *Batch and Queue*, 3-2
 - example, *Batch and Queue*, 3-6, 3-7
 - format, *Batch and Queue*, 3-6
 - qualifiers, *Batch and Queue*, 3-6
- Data compare error
 - conditions for, *System Management*, 12-47
 - definition, *System Management*, 12-13
- .DATA directive, *Indirect*, 2-49
- Data file
 - RMSDES utility, *RMS-11 Utilities*, 2-3, 2-17, 2-24
 - creating, *RMS-11 Utilities*, 2-3, 2-7, 2-28
 - GET command, *RMS-11 Utilities*, 2-10
- Data format
 - ANSI tape, *I/O Operations*, 1-8
 - file device, *I/O Operations*, 1-6
- Data integrity checking
 - RMSBCK utility, *RMS-11 Utilities*, 6-6 to 6-7, 6-9
 - RMSRST utility, *RMS-11 Utilities*, 7-6, 7-8
- Data mode, *Indirect*, 2-53
- Data packet
 - sending, *Executive*, 5-231
- Data patterns
 - IOX
 - list, *System Management*, 12-40
- Data record, *RMS-11 Intro*, 3-7
- Data-set descriptor, *I/O Operations*, 2-27
 - address initialization, *I/O Operations*, 2-14
 - as data structure, *I/O Operations*, 1-5
 - definition, *I/O Operations*, 1-3
 - general description, *I/O Operations*, 1-5
 - OFNB\$x macro, *I/O Operations*, 3-15
 - pointer definition, *I/O Operations*, 1-3
 - pointer file-open, *I/O Operations*, 2-13
 - pointer initialization, *I/O Operations*, 2-14
 - specifying, *I/O Operations*, 2-26
- Data space, *Debugging*, 7-2; *Executive*, 3-1; XDT, 2-4
 - command, *Debugging*, 2-7; XDT, 2-13
 - enabling, *Debugging*, 1-3
- Executive support for
 - running VMR, *System Management*, 5-3

Data space (cont'd.)

- mapping, *Executive*, 3-3
- moving data, *Executive*, 5-155
- task, *Task Builder*, 7-1

Data storage, *RMS-11 Intro*, 2-1

- and file organization, *RMS-11 User's Guide*, 2-5

- control in assembly language, *Program Development*, 1-5

- directive, *Program Development*, 1-5

- MACRO-11 definition, *Program Development*, 2-8

- program section, *Program Development*, 2-8

Data structure, *Writing I/O Driver*, 1-14

- memory management directive, *Executive*, 3-10

DATA subpacket, *Error Logging*, 4-3, 4-4

- See also Dispatcher module

- append-to-file operation, *Error Logging*, 4-65

- block-replacement operation, *Error Logging*, 4-66

- change-limits operation, *Error Logging*, 4-66

- device error, *Error Logging*, 4-66

- device information messages, *Error Logging*, 4-66

- driver-load or unload event, *Error Logging*, 4-68

- listing, *Error Logging*, 4-65 to 4-68

- memory parity error event, *Error Logging*, 4-66

- set-backup-file operation, *Error Logging*, 4-65

- switch-logging-files operation, *Error Logging*, 4-65

- system-crash event, *Error Logging*, 4-67

- system-message event, *Error Logging*, 4-68

- unknown interrupt event, *Error Logging*, 4-67

Data Terminal Emulator

- See DTE

Data transfer, *Writing I/O Driver*, 1-12

- BRU utility, *Utilities*, 3-30

- DSC utility, *Utilities*, 6-18

- FLX utility, *Utilities*, 8-1

Data transfer time

- I/O service time and, *System Management*, 14-2

DATATRIEVE-11 program

- as report generator, *System Management*, 10-17

DATATRIEVE-11 program (cont'd.)

- converting transaction file for, *System Management*, 10-17

- writing accounting report with, *System Management*, 10-17

Data type

- keys, *RMS-11 User's Guide*, 6-3

- and segmenting, *RMS-11 User's Guide*, 6-7

- 2-byte-signed integer, *RMS-11 User's Guide*, 6-4

- 4-byte signed integer, *RMS-11 User's Guide*, 6-4

- 2-byte unsigned binary, *RMS-11 User's Guide*, 6-5

- 4-byte unsigned binary, *RMS-11 User's Guide*, 6-5

- packed decimal, *RMS-11 User's Guide*, 6-6

- string, *RMS-11 User's Guide*, 6-3

- key values, *RMS-11 Intro*, 3-7

- DAT block, *RMS-11 Macro*, 5-78, 5-94; *RMS-11 Intro*, 4-8

- chaining to FAB, *RMS-11 Macro*, 2-11 to 2-13

- declaring, *RMS-11 Macro*, 2-7

- initializing, *RMS-11 Macro*, 2-9

- summary, *RMS-11 Macro*, 6-12

Date, *DCL*, 1-13

- See also DAT block

- displaying, *System Management*, 5-78; *DCL*, 8-4

- setting, *System Management*, 5-78; *DCL*, 8-2

- specifying, *System Library*, 6-5

- <DATE> symbol, *Indirect*, 2-22

Date conversion

- alternate format date (\$DAT), *System Library*, 6-4

- standard format date (\$DAT), *System Library*, 6-3

/DATE switch

- RPT, *Error Logging*, 3-8

- arguments, *Error Logging*, 3-9

- processing, *Error Logging*, 4-4

- /DCB, *Crash Dump Analyzer*, 2-4, 2-6

DCB

- ASCII device name, *Writing I/O Driver*, 4-17

- composite arrangement, *Writing I/O Driver*, 2-12

DCB (cont'd.)

- creating mask words in, *Writing I/O Driver*, 4-20
 - definition, *Writing I/O Driver*, 1-4
 - details, *Writing I/O Driver*, 4-16, 4-17
 - driver dispatch table pointer, *Writing I/O Driver*, 4-18
 - driver-specific function masks, *Writing I/O Driver*, 4-20 to 4-24
 - establishing characteristics for, *Writing I/O Driver*, 2-7
 - establishing I/O function masks, *Writing I/O Driver*, 4-21
 - fields, *Writing I/O Driver*, 4-16, 4-17
 - format, *Writing I/O Driver*, 4-16, 4-17
 - labeling, *Writing I/O Driver*, 4-3
 - length of UCB, *Writing I/O Driver*, 4-17
 - linking to next DCB, *Writing I/O Driver*, 4-16
 - list of, *Writing I/O Driver*, 2-3
 - means to access Driver Dispatch Table, *Writing I/O Driver*, 2-3
 - number of units stored, *Writing I/O Driver*, 4-3
 - overview, *Writing I/O Driver*, 2-3
 - pointer to first UCB, *Writing I/O Driver*, 4-16
 - unit number range, *Writing I/O Driver*, 4-17
 - validation during LOAD, *Writing I/O Driver*, 5-12
- DCBDF\$, *Crash Dump Analyzer*, C-15
- DCL, *RMS-11 User's Guide*, B-2; MCR, 3-47; *Program Development*, 1-2 to 1-3; *System Management*, 17-2; DCL, 1-1, 9-1; *Introduction*, 1-1, 1-11, 3-1, 5-1; *MACRO-11*, 7-1
- commands
- SET, *System Management*, 18-4
- intermediate form
- See IFORM
- interpretation, *System Management*, 18-5
- mapping to MCR, *System Management*, 18-16
- QMG
- command format, *System Management*, 3-15
 - naming conventions, *System Management*, 3-15
 - running as a task, *System Management*, 18-3

DCL (cont'd.)

- SET TERMINAL command
 - /MCR qualifier, MCR, 1-1
 - SYSGEN question, *System Generation*, 3-28 task
 - See DCL task
- DCL command
- See also DIGITAL COMMAND LANGUAGE command
 - linking
 - ODT, *Debugging*, 1-3
 - ODTID, *Debugging*, 1-3
 - explicitly, *Debugging*, 1-4
 - supervisor-mode libraries, *Debugging*, 1-4
- DCL command qualifier, *MACRO-11*, 7-7
- DCL command table, *System Management*, 18-6
- example, *System Management*, 18-58 to 18-59
 - interpreting, *System Management*, 18-13
 - modifying, *System Management*, 18-22
- /DCL keyword
- HELP command, MCR, 3-72
 - SET command, MCR, 3-162
- DCL Master Command Table
- See MCT
- DCL operating procedure, *MACRO-11*, 7-7
- DCL prompt, MCR, 1-1
- DCL task
- commands
 - adding, *System Management*, 18-22
 - deleting, *System Management*, 18-27
 - modifying, *System Management*, 18-27
 - definition, *System Management*, 1-19, 18-1
 - IFORM, *System Management*, 18-20
 - installation, *System Management*, 18-2
 - alternatives, *System Management*, 18-2
 - catchall task, *System Management*, 18-4
 - conventional, *System Management*, 18-2
 - MCR task, *System Management*, 18-3
 - MCR fallthrough, *System Management*, 18-4
 - modifying, *System Management*, 1-19
 - overlay, *System Management*, 18-24
 - parser process, *System Management*, 18-6
 - parser table, *System Management*, 18-15
 - PT/TT, *System Management*, 18-26
 - file, *System Management*, 18-22
 - task building, *System Management*, 18-4
 - first pass, *System Management*, 18-5

DCL task
 task building (cont'd.)
 second pass, *System Management*, 18-5
 translator process, *System Management*, 18-6

DCM
 definition, *System Management*, 15-1
 enabling, *System Management*, 15-1

D command, *Debugging*, 2-7; *XDT*, 2-13
 /DC switch
 DMP utility, *Utilities*, 5-4

DDDRV, *I/O Drivers*, 5-1

\$DDIV (Double-precision divide), *System Library*, 3-4

DDS
 See Default directory string

/DD switch
 PIP utility, *Utilities*, 12-10

DDT\$ macro call
 arguments, *Writing I/O Driver*, 4-5
 use of, *Writing I/O Driver*, 4-5

\$DEAC1 routine, *Writing I/O Driver*, 7-15

\$DEACB routine, *Writing I/O Driver*, 7-15

Deaccess lock
 F11ACP, *I/O Operations*, H-10

DEA command
 See DEALLOCATE command

DEALLOCATE command, *MCR*, 3-48; *DCL*, 5-44 to 5-45, 9-10
 brief description, *MCR*, 1-7
 example, *MCR*, 3-48
 format, *MCR*, 3-48
 parameters, *MCR*, 3-48

Deallocate Device Transaction Block, *System Management*, 10-41

Deallocation entry point, *Writing I/O Driver*, 4-61

DEASSIGN/QUEUE command, *System Management*, 3-30
 See also DEASSIGN command

DEASSIGN command, *DCL*, 5-34 to 5-36, 9-10
 DEASSIGN/QUEUE, *DCL*, 9-11

DEB command
 See DEBUG command

\$DEBUG, *I/O Operations*, 7-2

DEBUG command, *MCR*, 3-49; *DCL*, 7-44 to 7-45, 9-11
 brief description, *MCR*, 1-6
 examples, *MCR*, 3-49
 format, *MCR*, 3-49
 parameter, *MCR*, 3-49

DEBUG command (cont'd.)
 RSX-11M-PLUS and Micro/RSX, *Debugging*, 1-6

Debugging
 aid, *MCR*, 3-49
 introduction, *Program Development*, 1-7
 MACRO-11 source file, *Program Development*, 3-3, 3-4
 task, *MCR*, 3-49; *Program Development*, 4-8, 5-1, 5-2, 7-7, 7-8
 tool
 See ODT
 using map, *Program Development*, 5-2, 5-8

Debugging aid
 including, *Task Builder*, 10-15, 11-27
 /DEBUG qualifier, *Task Builder*, 11-27
 LINK command, *Program Development*, 5-1

Debug routine, *I/O Operations*, 7-6

.DEC directive, *Indirect*, 2-50

Decimal conversion
 decimal to binary
 (\$CDTB), *System Library*, 4-4
 doubleword (.DD2CT), *System Library*, 4-1

Decimal mode, *Indirect*, 2-54

Decimal number
 specifying, *MCR*, 1-2

DECIMAL print radix
 CFL, *Error Logging*, 5-5

Decimal version numbers
 SYSGEN question, *System Generation*, 3-29

/DEC keyword
 SET command, *MCR*, 3-162
 SET command (VMR), *System Management*, 5-54

DECL\$S directive, *Executive*, 5-64

Declare GSD record type, *Task Builder*, A-4

Declare Significant Event directive, *Executive*, 5-64

DECLARE statement
 CFL, *Error Logging*, 5-25

DECnet, *RMS-11 User's Guide*, 8-6 to 8-8, B-1; *DCL*, 1-15
 and CREATE operations, *RMS-11 User's Guide*, B-2 to B-3
 and ERASE operations, *RMS-11 User's Guide*, B-2
 and file organization, *RMS-11 User's Guide*, B-3
 and OPEN operations, *RMS-11 User's Guide*, B-2 to B-3

DECnet (cont'd.)

- and PARSE operations, *RMS-11 User's Guide*, B-1
 - and REMOVE operations, *RMS-11 User's Guide*, B-1
 - and RENAME operations, *RMS-11 User's Guide*, B-1
 - and SEARCH operations, *RMS-11 User's Guide*, B-1
 - block access, *RMS-11 User's Guide*, B-3
 - DAPRES resident library, *RMS-11 User's Guide*, B-1
 - disk-resident overlaid code, *RMS-11 User's Guide*, B-1
 - FALs
 - on different systems, *RMS-11 User's Guide*, B-3
 - file specification, *RMS-11 User's Guide*, B-2
 - default, *RMS-11 User's Guide*, B-2
 - node, *RMS-11 User's Guide*, B-2
 - quoted string, *RMS-11 User's Guide*, B-2
 - I/O buffers, *RMS-11 User's Guide*, B-3
 - indexed files, *RMS-11 User's Guide*, B-3
 - relative files, *RMS-11 User's Guide*, B-3
 - sequential files, *RMS-11 User's Guide*, B-3
 - limitations on functions, *RMS-11 User's Guide*, B-1
 - shutting down with SHUTUP.COMD, *System Management*, 6-3
- DECnet package
- CEX
 - pregenerated kit, *System Generation*, 5-49
 - pool use
 - pregenerated kit, *System Generation*, 5-49
- DECODE statement
- CFL, *Error Logging*, 5-31
- DECREMENT statement
- CFL, *Error Logging*, 5-30
- DEctape, *RMS-11 Macro*, 3-1, 5-20, 5-37, 5-77, 5-88, 5-97, 5-104, 5-111, 5-117
- exercising with IOX, *System Management*, 12-3
 - format, MCR, 2-1
 - accessing, MCR, 2-1
 - function code list, *I/O Drivers*, B-8, B-13
- DEctape file structure, *I/O Operations*, 5-1
- DECTAPE II, *RMS-11 Macro*, 3-1, 5-20, 5-37, 5-77, 5-88, 5-104

Dedicated mode

- LADRV, *I/O Drivers*, 12-1
- DEF\$SZ argument, *RMS-11 Macro*, C-1
- <DEFAULT> symbol, *Indirect*, 2-10
- Default, *Introduction*, 1-14 to 1-15, 3-10
 - compilers, *RMS-11 User's Guide*, 2-2
- DEQ, *RMS-11 User's Guide*, 4-4
 - file specification, *RMS-11 User's Guide*, A-6, B-2
- file type
 - MACRO-11, *Program Development*, 3-5
 - TKB, *Program Development*, 4-1
- RMS-11, *RMS-11 User's Guide*, 2-2
- RMSDES utility, *RMS-11 Utilities*, 2-21
- system library search
 - MACRO-11, *Program Development*, 1-5, 1-10, 2-6
 - TKB, *Program Development*, 1-11, 4-2
- transfer (starting) address, *Program Development*, 4-7
- VMR
 - device, *System Management*, 5-5
 - directory, *System Management*, 5-6
 - file types, *System Management*, 5-6
 - version number, *System Management*, 5-6
- /DEFAULT_LIBRARY qualifier, *Task Builder*, 11-28
- Default directory string, *Executive*, 5-109, 5-220; *Indirect*, 2-23, 2-26
 - retrieving, *Executive*, 5-108
 - setting, *Executive*, 5-219
- Default extension quantity
 - See DEQ
- RMSDEF utility, *RMS-11 Utilities*, A-15
- Default Filename Block
 - See DFNB
- DEFER_WRITES option, *System Management*, 15-5
 - MOUNT /CACHE command, MCR, 3-111
 - SET /CACHE command, MCR, 3-160
- Deferred write, *RMS-11 User's Guide*, 2-17, 6-27
 - and mass insertion, *RMS-11 User's Guide*, 6-29
 - indexed files, *RMS-11 User's Guide*, 7-8
 - relative files, *RMS-11 User's Guide*, 4-14
 - sequential files, *RMS-11 User's Guide*, 3-14
- Deferred write request
 - description, *System Management*, 15-5
 - I/O completion time, *System Management*, 15-5

- Deferred write requests
 - data caching, *MCR*, 3-111, 3-160
- DEFINE command, *DCL*, 5-14, 5-37 to 5-40, 9-11
- DEFINE LOGICALS command, *MCR*, 3-53
 - brief description, *MCR*, 1-5
 - examples, *MCR*, 3-57
 - format, *MCR*, 3-54, 3-55, 3-56
 - keywords
 - /ALL, *MCR*, 3-57
 - /FINAL, *MCR*, 3-55
 - /GBL, *MCR*, 3-55, 3-56, 3-57
 - /GR, *MCR*, 3-55, 3-56, 3-57
 - /SYSTEM, *MCR*, 3-56, 3-57
 - /TERM, *MCR*, 3-56, 3-57
- /DEF keyword
 - SET command, *MCR*, 3-162
- DEL argument to ORG\$ macro, *RMS-11 Macro*, 2-3
- .DELAY directive, *Indirect*, 2-51
- DEL C function
 - EDT editor, *Introduction*, 2-8
- DELETE\$ macro, *I/O Operations*, 3-2, 3-38
- DELETE/ENTRY command, *Introduction*, 3-14
- DELETE/PROCESSOR command, *System Management*, 3-27
 - See also DELETE command
 - processor types, *System Management*, 3-27
- DELETE/QUEUE command, *System Management*, 3-26
 - See also DELETE command
- Delete & Print command
 - EDI editor, *Utilities*, 7-22
- Delete access, *MCR*, 2-3
 - common region, *MCR*, 3-98; *System Management*, 5-24
- file
 - initializing volumes with, *MCR*, 3-88
 - specifying default, *MCR*, 3-80
 - specifying default for mounted volume, *MCR*, 3-113
 - specifying personal default, *MCR*, 3-164
- UFD
 - establishing, *MCR*, 3-209
- volume
 - initializing volumes with, *MCR*, 3-91
 - specifying default, *MCR*, 3-82
 - specifying default for mounted volume, *MCR*, 3-115
- Delete and print command
 - EDI editor, *Program Development*, 2-16
- DELETE command, *Utilities*, C-9; *DCL*, 4-38 to 4-41, 9-12; *Introduction*, 3-5 to 3-6, 3-7
 - DELETE/DIRECTORY, *DCL*, 4-19, 9-12
 - DELETE/ENTRY, *DCL*, 4-83 to 4-84, 9-12
 - DELETE/JOB, *DCL*, 4-83 to 4-84, 9-13
 - DELETE/PROCESSOR, *DCL*, 9-13
 - DELETE/QUEUE, *DCL*, 9-13
 - deleting a job from a queue, *Batch and Queue*, 1-9
 - EDT editor, *Introduction*, 2-15
 - examples, *Batch and Queue*, 2-11
 - format, *Batch and Queue*, 2-10
 - /REMOTE option, *Utilities*, C-8
- Delete command
 - EDI editor, *Utilities*, 7-21
- /DELETE file qualifier
 - PRINT command, *Batch and Queue*, 2-3
 - SET QUEUE command, *Batch and Queue*, 2-19
 - SUBMIT command, *Batch and Queue*, 3-15
- DELETE key, *MCR*, 2-15; *DCL*, 1-22, 3-13; *Introduction*, 1-7, 1-9
- TTDRV, *I/O Drivers*, 2-73
- Delete Logical directive
 - ASSIGN command, *MCR*, 3-15
- Delete Logical Name directive, *Executive*, 5-65
 - ASSIGN command, *MCR*, 3-15
- \$DELETE macro, *RMS-11 Macro*, 5-25
- Delete mode, *Indirect*, 2-54
- DELETE operation, *RMS-11 Macro*, 4-11; *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - and key position, *RMS-11 User's Guide*, 6-7
 - and shared access, *RMS-11 User's Guide*, 2-6
 - compressing records, *RMS-11 User's Guide*, 5-10, 5-16, 6-7, 6-9
 - declaring with ORG\$ macro, *RMS-11 Macro*, 2-3
 - deferred write, *RMS-11 User's Guide*, 7-9
 - \$DELETE macro, *RMS-11 Macro*, 5-25
 - duplicate keys, *RMS-11 User's Guide*, 6-9
 - indexed files, *RMS-11 User's Guide*, 5-15, 7-2, 7-9
 - optimizing, *RMS-11 User's Guide*, 6-7
 - relative files, *RMS-11 User's Guide*, 4-7
- DELETE option
 - ACNT, *System Management*, 2-6

- DELETESYS.CMD file
 - on pregenerated kit, *System Generation*, 5-8, 5-14
- /DEL file switch
 - PRI command, *Batch and Queue*, 2-3
 - QUE /MOD command, *Batch and Queue*, 2-19
 - SUB command, *Batch and Queue*, 3-15
- Delimiter, *Program Development*, 2-15
 - See also Argument delimiter
- /DEL keyword
 - USER FILE DIRECTORY command, MCR, 3-208
- DEL L function
 - EDT editor, *Introduction*, 2-8
- DEL W function
 - EDT editor, *Introduction*, 2-8
- /DENS, *Crash Dump Analyzer*, 2-8
- Density
 - See Bit density
 - bit 11 characteristic (tape driver), *I/O Drivers*, 6-9
 - parameter
 - device-specific (disk driver), *I/O Drivers*, 4-9
 - selection (tape driver), *I/O Drivers*, 6-15
- DENSITY command
 - IOX, *System Management*, 12-23
 - display command, *System Management*, 12-23
 - examples, *System Management*, 12-23
 - logical names, *System Management*, 12-23
 - SELECT command, *System Management*, 12-23
 - use, *System Management*, 12-23
 - valid tape densities, *System Management*, 12-23
- /DENSITY qualifier
 - BRU utility, *Utilities*, 3-14
 - default densities, *Utilities*, 3-14
 - specifying densities, *Utilities*, 3-14
- /DENS keyword
 - HOME command, MCR, 3-80
 - INITVOLUME command, MCR, 3-87
 - MOUNT command, MCR, 3-112, 3-120
 - SAV command (VMR), *System Management*, 5-45
- /DENS switch
 - DMP utility, *Utilities*, 5-4
 - DSC utility, *Utilities*, 6-13
 - /DENS switch (cont'd.)
 - FMT utility, *Utilities*, 9-3
- /DE option
 - MFT command, *Utilities*, C-8
- Depth
 - indexed files, *RMS-11 User's Guide*, 5-5
- DEQ
 - default
 - indexed files, *RMS-11 User's Guide*, 6-26
 - relative files, *RMS-11 User's Guide*, 4-4
 - sequential files, *RMS-11 User's Guide*, 3-5
 - indexed files, *RMS-11 User's Guide*, 6-26
 - relative files, *RMS-11 User's Guide*, 4-4
 - sequential files, *RMS-11 User's Guide*, 3-4
- /DE qualifier
 - FORTTRAN command, *Program Development*, 7-7
- D error
 - multiply defined label reference, *MACRO-11*, 1-3
- Description file
 - RMSDES utility, *RMS-11 Utilities*, 2-3, 2-13, 2-17, 2-24
 - EXIT command, *RMS-11 Utilities*, 2-10
 - GET command, *RMS-11 Utilities*, 2-10
 - SAVE command, *RMS-11 Utilities*, 2-27
- DESELECT command
 - IOX, *System Management*, 12-25
 - Command mode, *System Management*, 12-25
 - functions
 - Files-11 testing, *System Management*, 12-25
 - NFS testing, *System Management*, 12-25
 - Interactive mode, *System Management*, 12-25
 - logical names, *System Management*, 12-25
- Design buffer
 - RMSDES utility, *RMS-11 Utilities*, 2-1, 2-16
- Designing files, *RMS-11 Intro*, 3-15
- Design session
 - RMSDES utility, *RMS-11 Utilities*, 2-1
 - resuming, *RMS-11 Utilities*, 2-22
- Despooler
 - error messages, *System Management*, 3-50 to 3-51

Despool prototype task
 See LPP
 /DE switch, *Indirect*, 2-35
 FLX utility, *Utilities*, 8-7
 FOR command, *Program Development*, 7-7
 LBR utility, *Utilities*, 10-15
 PIP utility, *Utilities*, 12-11
 RMSIFL utility, *RMS-11 Utilities*, 3-7, 3-10, 3-14
 VFY utility, *Utilities*, 14-3
 /DE switch (Indirect), *Indirect*, 2-35
 Detach mode, *Indirect*, 2-53
 Detach Region directive, *Executive*, 5-72
 \$\$DEUMR routine
 calling \$DQUMR, *Writing I/O Driver*, 7-16
 \$DEUMR routine, *Writing I/O Driver*, 7-16
 calling from driver, *Writing I/O Driver*, 7-4
 DEUNA driver
 See XEDRV
 DEUNA Ethernet controller
 SYSGEN question, *System Generation*, 3-68
 /DEV, *Crash Dump Analyzer*, 2-4, 2-6
 DEV command
 See also DEVICES command
 disk data caching, *System Management*, 15-7
 status of CO, *System Management*, 9-8
 VMR
 definition, *System Management*, 5-16
 example, *System Management*, 5-17
 format, *System Management*, 5-16
 notes, *System Management*, 5-16
 parameter, *System Management*, 5-16
 DEV-ctl parameter
 IO.XOP function (XEDRV), *I/O Drivers*, 10-6
 \$DEVHD routine, *Writing I/O Driver*, 2-3, 2-12
 Device, MCR, 2-9 to 2-12; *Writing I/O Driver*, 1-1; DCL, 5-1; *Introduction*, 1-6, 1-13, 3-11, 6-7 to 6-8
 See also Controller
 See also Disk
 See also Line interface
 See also Line printer
 See also Logical device
 See also Magnetic tape
 See also Medium
 See also Multiplexer
 See also Pseudo device, Logical device
 accessing, MCR, 3-108

Device (cont'd.)

activating with ONLINE command, *System Management*, 4-26
 adding after SYSGEN, *System Generation*, 4-10
 restrictions, *System Generation*, 4-11
 address, *Writing I/O Driver*, 1-1
 allocated, DCL, 5-10
 allocating, MCR, 2-12, 3-10
 allocating from batch job, *Batch and Queue*, 3-13
 and record formats, *RMS-11 User's Guide*, 2-15
 assigned controller, *Writing I/O Driver*, 1-20
 attached, MCR, 3-134
 attaching, *I/O Drivers*, 1-27
 bootable, MCR, 3-30
 busy/not busy, *Writing I/O Driver*, 1-12
 changing CSR and vector, *System Generation*, 2-7
 characteristic (tape driver), *I/O Drivers*, 6-1
 characteristics
 setting, MCR, 3-151
 common, MCR, 3-175
 configuration
 pregenerated kits, *System Generation*, 5-47
 configuration in baseline, *System Generation*, 3-13
 configured on line, *Writing I/O Driver*, 1-14
 controller
 overlapped-seek support, MCR, 3-174
 deallocating, *Batch and Queue*, 3-13; MCR, 2-12, 3-10, 3-48
 default, MCR, 3-163
 definition of context, *System Management*, 4-6
 detaching, *I/O Drivers*, 1-28
 disk, *RMS-11 User's Guide*, 1-12; *RMS-11 Intro*, 2-1
 displaying, MCR, 3-50
 displaying attributes, DCL, 5-138
 driver
 See Device driver
 loading
 pregenerated kit, *System Generation*, 5-44
 dual-access capability, *Writing I/O Driver*, 1-19

Device (cont'd.)

- fairness-count, MCR, 3-174
- Files-11 structure, MCR, 2-1
- file specification, *RMS-11 User's Guide*, A-1, A-4
- file-structured, MCR, 3-108
- fixed media, *Crash Dump Analyzer*, 1-5
- generic name, *Writing I/O Driver*, 2-3
- getting information, *Executive*, 5-126
- I/O requests
 - redirecting, MCR, 3-134
- identifier for, MCR, 2-9
- improving response to requests, *System Management*, 1-7
- industrial, DCL, 5-5
- information, *Indirect*, 2-94
- interrupt, *Writing I/O Driver*, 1-5
- IOX configuration
 - adding to, *System Management*, 12-20
 - displaying, *System Management*, 12-20
 - removing from, *System Management*, 12-20, 12-48
- IOX exercise
 - selecting, *System Management*, 12-5
 - status during, *System Management*, 12-54
- laboratory, DCL, 5-5
- list, MCR, 3-118
- list of supported, *I/O Drivers*, 1-42, 1-43
- logical, DCL, 5-6, 5-36
- logical assignment, MCR, 2-11
- logical name, *Indirect*, 2-96; MCR, 2-11
- logical names on VAX-11 host, *System Generation*, 2-21
- magnetic tape, *RMS-11 User's Guide*, 1-12
- making accessible, *Writing I/O Driver*, 5-6
- mnemonic, *System Generation*, 2-3
- mounted, MCR, 3-52
- name
 - nonphysical, *I/O Drivers*, 1-20
 - physical, *I/O Drivers*, 1-19, 1-20
 - pseudo, *I/O Drivers*, 1-20
- name
 - displaying, MCR, 3-50
- non-file-structured, MCR, 3-108
- nonshared, MCR, 3-108
- notation format, *System Generation*, 3-35
- null, MCR, 2-11; *System Management*, 5-37
- off-line, MCR, 3-52; *System Management*, 5-16
- on-line, MCR, 3-52

Device (cont'd.)

- ownership, MCR, 2-12
- peripheral, DCL, 5-1 to 5-10; *Introduction*, 6-1, 6-7
 - adding to configuration, *System Generation*, 5-34; *System Management*, 4-2
 - definition of, MCR, 2-9
- physical
 - See Physical device
- placing off line, *System Management*, 4-6
- placing on line, *System Management*, 4-6
- pregenerated kit, *System Generation*, 5-46
- private, *Batch and Queue*, 3-13; MCR, 3-180; DCL, 5-41 to 5-45
 - See Device, nonshared
 - See Volume, nonshared
- allocating, MCR, 2-12
- deallocating, MCR, 3-10, 3-48
- definition, MCR, 2-12
- displaying, MCR, 3-196
- privileged status, MCR, 2-12
- pseudo, MCR, 2-10, 3-134; *System Generation*, B-4; *Introduction*, 3-11
- redirecting, MCR, 2-10
- public, MCR, 3-52, 3-108; DCL, 5-13
 - definition, MCR, 2-12
 - dismounting, MCR, 2-12
 - displaying, MCR, 3-180, 3-196
 - setting, MCR, 3-180
- queuing I/O request, *Executive*, 5-168, 5-172
- REASSIGN command, *I/O Drivers*, 1-20
- REDIRECT command, *I/O Drivers*, 1-20
- redirecting, *System Management*, 5-37
 - restrictions, *System Management*, 5-37
- registers, *Writing I/O Driver*, 1-1, 1-3, 4-45
- removing, *System Management*, 5-81
 - attached device, *System Management*, 5-81
- RL02
 - example of testing with IOX, *System Management*, 12-63
- saving system image, MCR, 3-147
- sequential, MCR, 3-108
- setting attributes, DCL, 5-134
- shadow, MCR, 3-60
- shared, MCR, 3-108
- spooled, MCR, 3-134
- storage of static characteristics, *Writing I/O Driver*, 2-3

Device (cont'd.)

- subcontroller, *Writing I/O Driver*, 1-14
- support, *System Generation*, B-1 to B-5
 - Autoconfigure, *System Generation*, 3-10, D-1
 - BRU utility, *Utilities*, 3-5
 - DSC utility, *Utilities*, 6-4
 - FLX utility, *Utilities*, 8-2
 - FMT utility, *Utilities*, 9-7
- switches, *Crash Dump Analyzer*, 2-6
- syntax for specification of, MCR, 2-5
- system default
 - adding to account entry, *System Management*, 2-4
 - changing, *System Management*, 2-11
 - displaying, *System Management*, 2-8, 2-10
 - in account entry, *System Management*, 2-1, 2-4
- table of logical assignments for, MCR, 2-12
- testing with IOX
 - file-structured, *System Management*, 12-1
 - non-file-structured, *System Management*, 12-1
 - steps involved, *System Management*, 12-2
 - time, *System Management*, 12-50
- TI
 - pseudo, *I/O Drivers*, 1-21
 - virtual, *I/O Drivers*, 1-21
- timeout, *Writing I/O Driver*, 2-5
 - entry point, *Writing I/O Driver*, 4-60
- unit failures, *System Management*, 11-4
- unit-record, *RMS-11 Intro*, 3-5
- unowned, DCL, 5-10
 - definition, MCR, 2-12
 - using, MCR, 2-12
- user's default, MCR, 2-10
- valid crash dump, *Crash Dump Analyzer*, 1-2
 - verification, *Utilities*, 2-7
- DEVICE_ACTIVITY subpacket
 - See IO_ACTIVITY subpacket
- DEVICE_ID subpacket, *Error Logging*, 4-3
 - listing, *Error Logging*, 4-62
- DEVICE_OP subpacket, *Error Logging*, 4-3
 - listing, *Error Logging*, 4-63
- Device common
 - MACRO-11 example, *Task Builder*, 5-31 to 5-35

Device context

- definition, *System Management*, 4-6
- Device control
 - LUN register, *Debugging*, 2-6, 5-4, 6-2
- Device Control Block
 - See DCB
- Device control code
 - event-level dispatching, *Error Logging*, 4-15
- Device control file module, *Error Logging*, 2-7 to 2-8
- Device controller dump, *Crash Dump Analyzer*, 3-42
 - common interrupt address, *Crash Dump Analyzer*, 3-42
 - Controller Request Block, *Crash Dump Analyzer*, 3-43
 - controller status, *Crash Dump Analyzer*, 3-43
 - Controller Table, *Crash Dump Analyzer*, 3-42
- Device controller switch
 - See /CTL
- Device control routine, *I/O Operations*, 4-27
- Device driver
 - building, MCR, 3-105
 - loadable, MCR, 3-105, 3-128
 - loading, MCR, 3-103; *System Management*, 5-29
 - specifying partition, MCR, 3-104
 - mapping, MCR, 3-103; *System Management*, 5-30
 - nonresident, MCR, 3-103
 - symbol table file
 - location of, MCR, 3-105
 - testing, *Indirect*, 2-70
 - vectoring, MCR, 3-103, 3-105
- Device error, *Error Logging*, 1-5, 1-6
 - hardware register contents, *Error Logging*, 1-6
 - subpacket information, *Error Logging*, 4-66
- Device error code
 - event-level dispatching, *Error Logging*, 4-15
- Device error logging, *Error Logging*, 2-7 to 2-8
 - \$DVCER routine, *Error Logging*, 4-23
- Device identification subpacket
 - See DEVICE_ID subpacket
- Device information
 - .PRSDV routine, *I/O Operations*, 4-15
- Device information code
 - event-level dispatching, *Error Logging*, 4-15
- Device information dump, *Crash Dump Analyzer*, 3-30

Device information dump (cont'd.)

- control processing flags, *Crash Dump Analyzer*, 3-31
- device characteristics word, *Crash Dump Analyzer*, 3-31
- Device Control Block, *Crash Dump Analyzer*, 3-34
- I/O request packet, *Crash Dump Analyzer*, 3-34
- Status Control Block, *Crash Dump Analyzer*, 3-34
- terminal status word, *Crash Dump Analyzer*, 3-30
- UCB extension, *Crash Dump Analyzer*, 3-34
- Device information message
 - subpacket information, *Error Logging*, 4-66
- Device information table, *Error Logging*, 4-17, 4-18, 4-35
- Device interrupt address
 - overview, *Writing I/O Driver*, 2-6
- Device interrupt vector, *Writing I/O Driver*, 2-4
- Device-level module, *Error Logging*, 2-7, 4-7 to 4-9, 4-11
 - adding to system, *Error Logging*, 4-27
 - bit-to-text translation, *Error Logging*, 4-7, 4-27, 4-33
 - coroutine statement, *Error Logging*, 4-32
 - device data declaration, *Error Logging*, 4-29
 - device name, *Error Logging*, 4-28
 - device registers, *Error Logging*, 4-29
 - error type, *Error Logging*, 4-32
 - example, *Error Logging*, 4-36 to 4-50
 - exiting, *Error Logging*, 4-34
 - flow of, *Error Logging*, 4-28
 - intermodule variables, *Error Logging*, 4-32
 - local work variables, *Error Logging*, 4-31
 - MODULE statement, *Error Logging*, 4-35
 - non-DIGITAL device, *Error Logging*, 4-21
 - notes requirement, *Error Logging*, 4-33
 - procedures, *Error Logging*, 4-28 to 4-34
 - PROCEDURE statement, *Error Logging*, 4-29
 - register declaration, *Error Logging*, 4-30
 - SUBPACKET declaration, *Error Logging*, 4-29
 - table of, *Error Logging*, 4-8
 - writing, *Error Logging*, 4-28 to 4-34
- Device name
 - assigning logical, MCR, 2-11
 - logical, *Crash Dump Analyzer*, 3-14
 - notes module, *Error Logging*, 4-34

Device name (cont'd.)

- physical, *Crash Dump Analyzer*, 3-14
- string descriptor, *I/O Operations*, 2-27
- user-written module, *Error Logging*, 4-28
- Device name field, *I/O Operations*, 2-32
- Device operation subpacket
 - See DEVICE_OP subpacket
- /DEVICE processor type, *System Management*, 3-19
- /DEVICE qualifier
 - PRINT command, *Batch and Queue*, 2-3
 - SHOW QUEUE command, *Batch and Queue*, 2-14
- Device register
 - device-level modules, *Error Logging*, 4-29
- DEVICES command, MCR, 3-50
 - brief description, MCR, 1-6
 - examples, MCR, 3-50
 - formats, MCR, 3-50
 - /LOG keyword, MCR, 3-50
 - parameters, MCR, 3-50
 - VMR
 - See DEV command
- DEVICE setup command, *System Management*, 7-17
- Device specification, MCR, 2-5
 - use of colon in, MCR, 2-5
- Device-specific QIO\$
 - LADRV, *I/O Drivers*, 12-25
- /DEVICES qualifier
 - ANALYZE/ERROR_LOG command, *Error Logging*, 3-5, 3-9
 - See also /DEVICE switch
 - arguments, *Error Logging*, 3-9
- Device state, *System Management*, 4-5
 - marked for off line, *System Management*, 4-5
 - marked for on line, *System Management*, 4-5
 - off line, *System Management*, 4-5
 - on line, *System Management*, 4-5
- Device statistics
 - Resource Accounting
 - example, *System Management*, 10-7
- Device Statistics Block, *System Management*, 10-49
- /DEVICE switch
 - RPT, *Error Logging*, 3-5, 3-9
 - See also /DEVICES qualifier
 - arguments, *Error Logging*, 3-5, 3-9
 - processing, *Error Logging*, 4-4

- Device timeout logging
 - \$DTOER routine, *Error Logging*, 4-22
 - \$DVTMO routine, *Error Logging*, 4-22
- /DEV keyword
 - DISMOUNT command, MCR, 3-61
 - TASKLIST command, MCR, 3-204
- Dev parameter
 - ALUN\$ macro, *I/O Drivers*, 1-18
- DEVSM1 control file module, *Error Logging*, 4-6, 4-11, 4-17, 4-36, A-5
- DEVUDA control file module, *Error Logging*, 2-7, 4-6, 4-11, A-5
- /DFB keyword
 - INSTALL command, MCR, 3-96
 - INSTALL command (VMR), *System Management*, 5-22
- DF conditional assembly test, MACRO-11, 5-45
- DFIN\$G argument, *RMS-11 Macro*, C-1
- DFIN\$L argument, *RMS-11 Macro*, C-1
- DFL command
 - See DEFINE LOGICALS command
- /ALL keyword, *System Management*, 8-18
- DFNB, *I/O Operations*, 2-29, 3-15
 - as data structure, *I/O Operations*, 1-5
 - definition, *I/O Operations*, 1-3
 - FNBLK\$ macro, *I/O Operations*, 2-29
 - OFNB\$x macro, *I/O Operations*, 3-15
 - specifying, *I/O Operations*, 2-26
- /DF switch
 - LBR utility, *Utilities*, 10-16
 - PIP utility, *Utilities*, 12-12
- /DG switch
 - LBR utility, *Utilities*, 10-17
- DH11 multiplexer
 - TTDRV, *I/O Drivers*, 2-82
- DH11 serial line multiplexer
 - TTDRV
 - remote line, *I/O Drivers*, 2-84
- DHQ11 multiplexer
 - TTDRV, *I/O Drivers*, 2-82
- DHU11/DHV11/DHQ11 line multiplexer
 - SYSGEN question, *System Generation*, 3-60
- DHU11 multiplexer
 - TTDRV, *I/O Drivers*, 2-82
- DHV11 multiplexer
 - TTDRV, *I/O Drivers*, 2-82
- Diagnostic
 - buffer
 - p5 address, *I/O Drivers*, 10-22
 - p6 size, *I/O Drivers*, 10-22
 - XEDRV, *I/O Drivers*, 10-22

- Diagnostic (cont'd.)
 - function
 - IO.DGN (DDDRV), *I/O Drivers*, 5-4
 - IO.XRC, *I/O Drivers*, 10-22, 10-23
 - IO.XTM, *I/O Drivers*, 10-22, 10-23
 - no data transfer (XEDRV), *I/O Drivers*, 10-24
 - request block (XEDRV), *I/O Drivers*, 10-22
 - user-mode function, *I/O Drivers*, 1-34, 1-35
- Diagnostic error message, *System Management*, 5-82
- Diagnostic run
 - FORTAN IV source file, *Program Development*, 7-3, 7-4
 - MACRO-11 source file, *Program Development*, 3-1, 3-2
- Diagnostics Loader task
 - See DLD task
- Dial command string
 - for modem, *Utilities*, C-5
- /DIAL option
 - SET HOST/DTE command, *Utilities*, C-5
- Dial-up line
 - baud rate
 - SYSGEN question, *System Generation*, 3-58
 - SYSGEN question, *System Generation*, 3-58
- DIC, *Executive*, 1-2
- DIF conditional assembly test, MACRO-11, 5-45
 - effect on .ENABL/.DSABL LCM, MACRO-11, 5-45
- DIFFERENCES command, DCL, 4-65 to 4-70, 9-14
- DIGITAL Command Language
 - See DCL
- DIGITAL COMMAND LANGUAGE
 - command, MCR, 3-47
 - brief description, MCR, 1-7
 - examples, MCR, 3-47
 - format, MCR, 3-47
- Digital input
 - K-series, *I/O Drivers*, 13-14
- DIGITAL Multinational Character Set, MCR, 3-4
 - chart, MACRO-11, A-10
 - table, MACRO-11, A-1
 - use in keyword arguments, MACRO-11, 6-11

DIGITAL Multinational Character Set (cont'd.)

using circumflex when passing as arguments, *MACRO-11*, 6-6

DIGITAL Network Architecture

See DNA

Digital output

K-series, *I/O Drivers*, 13-18

DIGITAL Standard Editor

See EDT editor

Digital start event

K-series, *I/O Drivers*, 13-14

DIGITAL-supplied driver, *System Generation*, 1-8

DIGO: subroutine

digital start event (K-series), *I/O Drivers*, 13-14

DINP: subroutine

digital input (K-series), *I/O Drivers*, 13-14

DIR\$ macro, *Executive*, 1-7; *I/O Drivers*, 1-15, 1-16

example, *I/O Drivers*, 1-16

format, *I/O Drivers*, 1-16

DIR attribute, *System Management*, 18-36

<DIRECT> symbol, *Indirect*, 2-23

Direct access

See Random access

Direct-access label, *Indirect*, 2-37

Direct assignment statement

equal sign colon (=), *MACRO-11*, 2-7

forward referencing, *MACRO-11*, 2-8

may change current location counter, *MACRO-11*, 5-31

use of space character, *MACRO-11*, 2-8

Directive, *Indirect*, 1-4, 2-3, 2-36

See also Executive directive

assembler, *Program Development*, 1-5

conditional assembly, *MACRO-11*, 5-44

conventions, *Executive*, 5-7

data storage, *MACRO-11*, 5-17

DIC list, *Executive*, C-1

.END, *Program Development*, 2-8, 3-4, 4-3, 4-8

EXIT\$, *Program Development*, 2-6

file control, *MACRO-11*, 5-49

function, *MACRO-11*, 5-13

functions, *Indirect*, 2-3

general-purpose, *Program Development*, 2-6 to 2-7

.IDENT, *Program Development*, 2-5

indefinite repeat, *MACRO-11*, 6-17

listing control, *MACRO-11*, 5-3

list of obsolete, *MACRO-11*, 1-1

Directive (cont'd.)

.LIST TTM, *Program Development*, 2-6

macro, *MACRO-11*, 6-1

macro attribute, *MACRO-11*, 6-13, 6-14

macros, *Executive*, 1-4

\$C form, *Executive*, 1-6

\$ form, *Executive*, 1-5

naming conventions, *Executive*, 1-4

\$S form, *Executive*, 1-6

.MCALL, *Program Development*, 1-10, 2-6, 3-4, 6-3, 6-4

memory management, *Executive*, 3-1

data structures, *Executive*, 3-10

summary, *Executive*, 3-8

.NLIST BEX, *Program Development*, 2-6

overriding permanent definitions with

.MCALL, *MACRO-11*, 6-21

.PAGE, *Program Development*, 2-6

processing, *Executive*, 1-2

.PSECT, *Program Development*, 2-8

rejecting, *Executive*, 1-2

.SBTTL, *Program Development*, 2-6

summary, *Indirect*, 2-5 to 2-8; *MACRO-11*, B-3, C-7

symbol control, *MACRO-11*, 5-42

system, *Program Development*, 1-10

table of general, *MACRO-11*, 5-1

.TITLE, *Program Development*, 2-5, 6-6

Directive common

fixing, *System Management*, 5-18

Directive condition, *I/O Drivers*, 1-37

Directive Identification Code

See DIC

Directive Parameter Block

See DPB

Directives

Indirect Command Processor, *Introduction*, 4-3 to 4-4

Directive status, *I/O Drivers*, 1-37

Directive status codes, *Indirect*, 2-17 to 2-18

Directive Status Word

See DSW

Directive summary

I/O related, *I/O Operations*, F-1

Direct line access

See DLX

Directory, DCL, 4-1, 4-3; *Introduction*, 1-13

See also UFD

creating, DCL, 4-16

creating files, MCR, 2-2

data caching, MCR, 3-160

Directory (cont'd.)

- default, MCR, 3-163; DCL, 4-4, 4-96, 4-100
- default for terminal, MCR, 2-7
- deleting, MCR, 2-2; DCL, 4-19
- file, *I/O Operations*, 5-2
- identification information
 - .PARSE routine, *I/O Operations*, 4-13
 - .PRSDI routine, *I/O Operations*, 4-15
- least recently used list, *System Management*, 1-8
- library, MCR, 3-142; DCL, 7-28 to 7-31, 8-10
 - as default for INSTALL command, MCR, 3-95
 - as default for RUN command, MCR, 3-142
 - displaying, DCL, 8-11
 - setting, DCL, 8-10
- listing, *Program Development*, 3-9
- listing file, *Utilities*, 12-18
- login, MCR, 3-67
- maintaining, DCL, 4-29
- named, MCR, 2-5; DCL, 4-96
- numbered, MCR, 2-5; DCL, 4-96
 - group number, MCR, 2-5
 - member number, MCR, 2-5
- protection, DCL, 4-12 to 4-13, 4-17, 4-107 to 4-109
 - default, DCL, 4-110 to 4-112
- purging, *Program Development*, 3-9
- search time
 - decreasing, *System Management*, 1-8
- structure, *I/O Operations*, 5-3
- syntax, MCR, 2-5
- system, DCL, 7-28 to 7-31, 8-10
 - as default for INSTALL command, MCR, 3-95
 - as default for RUN command, MCR, 3-142
- validating, *Utilities*, 14-3

DIRECTORY command, *Program Development*, 3-9; DCL, 4-29 to 4-37, 9-14; *Introduction*, 1-13, 3-6 to 3-7

Directory count

- acceptable values for, MCR, 3-80, 3-89, 3-114
- maximum, MCR, 3-80, 3-114
- specifying, MCR, 3-80, 3-89

Directory entry

- deleting
 - .REMOV routine, *I/O Operations*, 4-19

Directory entry (cont'd.)

- inserting
 - .ENTER routine, *I/O Operations*, 4-19
- locating
 - .FIND routine, *I/O Operations*, 4-16
- replacing
 - See RENAME operation
- routine, *I/O Operations*, 4-16

Directory I/O

- data caching, MCR, 3-111
- definition, *System Management*, 15-6

Directory identification

- FNB (F11ACP), *I/O Operations*, H-11

Directory operation, RMS-11 Macro, 3-5; *RMS-11 User's Guide*, 1-17; RMS-11 *Intro*, 4-1

See also Operation

\$ENTER macro, RMS-11 Macro, 5-35

Directory-operation macro

- declaring, RMS-11 Macro, C-2
- \$PARSE, RMS-11 Macro, 5-78
- \$REMOVE, RMS-11 Macro, 5-102
- \$RENAME, RMS-11 Macro, 5-86

DIRECTORY option, *System Management*, 15-6

- default extent size for, *System Management*, 15-6
- MOUNT /CACHE command, MCR, 3-111
- SET /CACHE command, MCR, 3-160

/DIRECTORY qualifier

- BRU utility, *Utilities*, 3-14

Directory string

- default
 - read, *I/O Operations*, 4-3
 - write, *I/O Operations*, 4-3
- routine
 - default, *I/O Operations*, 4-3

Directory string descriptor, *I/O Operations*, 2-27

/DIR keyword

- FIX command (VMR), *System Management*, 5-18

DIRSYM.MAC, *Executive*, 4-3

Disable AST Recognition directive, *Executive*, 5-68

Disable Checkpointing directive, *Executive*, 5-70

.DISABLE directive, *Indirect*, 2-52

/DISABLE keyword

- COMMAND LINE INTERPRETER command, MCR, 3-41

- /DISABLE qualifier
 - MACRO command, *Program Development*, 3-1
- /DISABLE subkeyword
 - COMMAND LINE INTERPRETER
 - command, MCR, 3-43
- \$DISCONNECT macro, *RMS-11 Macro*, 5-27
- DISCONNECT operation, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - block stream, *RMS-11 Macro*, 4-12
 - \$DISCONNECT macro, *RMS-11 Macro*, 5-27
 - indexed files, *RMS-11 User's Guide*, 7-3
 - record stream, *RMS-11 Macro*, 4-9
 - relative files, *RMS-11 User's Guide*, 4-8
 - sequential files, *RMS-11 User's Guide*, 3-7
- Disk, *RMS-11 Macro*, 3-1, 5-20, 5-37, 5-77, 5-88, 5-111, 5-117
 - backing up
 - BRU utility, *Utilities*, 3-1
 - DSC utility, *Utilities*, 6-1
 - blank, *DCL*, 5-11 to 5-12
 - characteristics
 - displaying, MCR, 3-50
 - comparing, *Utilities*, 6-13
 - compressing, *Utilities*, 6-4
 - conventional backup, *Utilities*, 3-3
 - copying
 - BRU utility, *Utilities*, 3-1
 - DSC utility, *Utilities*, 6-1
 - data caching support, *System Generation*, 3-27
 - DB-type
 - SYSGEN question, *System Generation*, 3-37
 - default number of blocks allocated
 - changing, *System Management*, 1-8
 - dismounting, MCR, 3-60
 - displaying free space
 - PIP utility, *Utilities*, 12-17
 - VFY utility, *Utilities*, 14-4
 - DK-type
 - SYSGEN question, *System Generation*, 3-41
 - DL-type
 - SYSGEN question, *System Generation*, 3-43
 - DM-type
 - SYSGEN question, *System Generation*, 3-42
- Disk (cont'd.)
 - DP-type
 - SYSGEN question, *System Generation*, 3-44
 - DR-type
 - SYSGEN question, *System Generation*, 3-38
 - DS-type
 - SYSGEN question, *System Generation*, 3-38
 - DU-type
 - SYSGEN question, *System Generation*, 3-45
 - DY-type
 - SYSGEN question, *System Generation*, 3-51
 - EM-type
 - SYSGEN question, *System Generation*, 3-39
 - examining data, *Utilities*, 5-1
 - formatting
 - FLX utility, *Utilities*, 8-4
 - FMT utility, *Utilities*, 9-1
 - full backup, *Utilities*, 3-4
 - function code list, *I/O Drivers*, B-8
 - home block, MCR, 3-79
 - image backup, *Utilities*, 3-3
 - initialization values, *System Generation*, 2-10
 - initializing, MCR, 3-83; *Utilities*, 3-2, 3-18
 - locating bad block, *Utilities*, 2-1
 - ML11
 - SYSGEN question, *System Generation*, 3-39
 - mounting, *Utilities*, 3-2
 - MSCP
 - SYSGEN question, *System Generation*, 3-45
 - new, *DCL*, 5-11 to 5-12
 - power failure affecting, *I/O Drivers*, 1-42
 - primary
 - shadowing, *System Management*, 1-15
 - private, *Program Development*, 1-12
 - public, *Program Development*, 1-12
 - RA60/80/81
 - SYSGEN question, *System Generation*, 3-45
 - RC25
 - SYSGEN question, *System Generation*, 3-45

Disk (cont'd.)

RD51/52/53

SYSGEN question, *System Generation*, 3-45

recovering

lost block, *Utilities*, 14-6

space, *Utilities*, 6-4

restoring, *Utilities*, 3-1

RK05

SYSGEN question, *System Generation*, 3-41

RK05F

SYSGEN question, *System Generation*, 3-41

RK06/06

SYSGEN question, *System Generation*, 3-42

RL01/RL02

SYSGEN question, *System Generation*, 3-43

RL02

example of testing with IOX, *System Management*, 12-63

RM02/03/05/80

SYSGEN question, *System Generation*, 3-38

RP02/RPR02/RP03

SYSGEN question, *System Generation*, 3-44

RP04/05/06

SYSGEN question, *System Generation*, 3-37

RP07

SYSGEN question, *System Generation*, 3-38

RS03/04

SYSGEN question, *System Generation*, 3-38

RX01

SYSGEN question, *System Generation*, 3-50

RX02

SYSGEN question, *System Generation*, 3-51

RX50

SYSGEN question, *System Generation*, 3-45

scratch, *DCL*, 5-11 to 5-12

selective backup, *Utilities*, 3-4

spinning down, *MCR*, 3-61

swapping

definition, *System Management*, 1-4

Disk (cont'd.)

testing with IOX, *System Management*, 12-2

selecting random blocks, *System Management*, 12-44

skipping blocks, *System Management*, 12-33

transferring data, *Utilities*, 6-18

TU56

SYSGEN question, *System Generation*, 3-50

verifying, *Utilities*, 14-1

block, *Utilities*, 14-6

Disk block

random or sequential

IOX, *System Management*, 12-44

Disk data caching

activating, *System Management*, 15-1

cache region

creating, *System Management*, 15-4

naming, *System Management*, 15-5

using alternate, *System Management*, 15-4

definition, *System Management*, 15-1

description, *System Management*, 1-18

eliminating association with a device, *System Management*, 15-12

I/O operations, *System Management*, 15-2

including as a directive common, *System Management*, 15-1

monitoring, *System Management*, 15-7

options for different types of I/O, *System Management*, 15-5

region, *System Management*, 15-16

Disk device

See also Medium

drive, *RMS-11 Intro*, 2-1

structure, *RMS-11 Intro*, 2-1

cylinder, *RMS-11 Intro*, 2-1

platter, *RMS-11 Intro*, 2-1

sector, *RMS-11 Intro*, 2-1

track, *RMS-11 Intro*, 2-1

Disk driver, *I/O Drivers*, 4-1 to 4-13

physical characteristic, *I/O Drivers*, 4-1

programming hints, *I/O Drivers*, 4-11

QIO\$ macro, *I/O Drivers*, 4-7

/DIS keyword

SWITCH REGISTER command, *MCR*, 3-201

Disk file structure, *I/O Operations*, 5-1

Disk-resident

overlay, *RMS-11 User's Guide*, 1-13, 8-3, 8-8 to 8-9

- Disk-resident
 - overlay (cont'd.)
 - remote access code, *RMS-11 User's Guide*, B-1
- Disk Save and Compress Utility
 - See DSC utility
- Disk space
 - recovery
 - See also DELETESYS.CMD file
 - after SYSGEN, *System Generation*, 4-4
 - on pregenerated kit, *System Generation*, 5-48
- Disk swapping, *System Management*, 1-4
- Disk Volume Formatter Utility
 - See FMT utility
- DISMOUNT command, MCR, 3-60; DCL, 5-12, 5-13, 5-63 to 5-66, 9-15
 - brief description, MCR, 1-5
 - examples, MCR, 3-62
 - formats, MCR, 3-60
 - keywords
 - /DEV, MCR, 2-12, 3-61
 - /LOCK, MCR, 3-61
 - /TERM, MCR, 3-61
 - /USER, MCR, 3-61
 - parameters, MCR, 3-61
 - shadow device, MCR, 3-60
- Dismount Device Transaction Block, *System Management*, 10-43
- DISPATCH control file module, *Error Logging*, 4-4, 4-9, 4-10, A-5
 - as input symbol file, *Error Logging*, 4-11
 - subpacket declaration, *Error Logging*, 4-10
- Dispatcher module
 - See also DATA subpacket
 - DSP1P1, *Error Logging*, 4-4, 4-11, 4-17, 4-65, A-5
 - DSP2P1, *Error Logging*, 4-5, 4-11, 4-17, 4-66, A-5
 - DSP3P1, *Error Logging*, 4-5, 4-11, 4-17, 4-66, A-5
 - DSP4P1, *Error Logging*, 4-5, 4-11, 4-17, 4-66, A-5
 - DSP5P1, *Error Logging*, 4-5, 4-11, 4-17, 4-21, 4-66, 4-67, A-5
 - DSP6P1, *Error Logging*, 4-5, 4-11, 4-17, 4-67, A-5
 - DSP7P1, *Error Logging*, 4-6, 4-11, 4-17, 4-67, 4-68, A-5
 - DSP8P1, *Error Logging*, 4-6, 4-11, 4-17, A-5
- Dispatcher module (cont'd.)
 - example, *Error Logging*, 4-50 to 4-59
 - subpacket declaration, *Error Logging*, 4-61
- Dispatching
 - CPU-level, *Error Logging*, 4-5, 4-21
 - device-level, *Error Logging*, 4-17 to 4-21
 - event-level, *Error Logging*, 4-5, 4-15 to 4-17
- Display (RMSDSP), *RMS-11 Utilities*, 5-5
- DISPLAY command, *System Management*, 4-12
 - examples, *System Management*, 4-13 to 4-14
 - format, *System Management*, 4-12
 - keywords
 - ALL, *System Management*, 4-12
 - ATTRIBUTES, *System Management*, 4-12
 - CONTROLLERS, *System Management*, 4-12
 - FULL, *System Management*, 4-13
 - UNITS, *System Management*, 4-13
 - parameter
 - FOR string, *System Management*, 4-12
 - Shadow Recording, *System Management*, 16-9
- Display commands
 - IOX
 - description, *System Management*, 12-6
- Display information (RMSDSP), *RMS-11 Utilities*, 5-1
- Displaying allocation information
 - RMSDSP utility, *RMS-11 Utilities*, 5-4
- Displaying area information
 - RMSDSP utility, *RMS-11 Utilities*, 5-4
- Displaying indexed file attribute
 - RMSDSP utility, *RMS-11 Utilities*, 5-4
- Displaying key information
 - RMSDSP utility, *RMS-11 Utilities*, 5-4
- \$DISPLAY macro
 - \$DISPLAY macro, *RMS-11 Macro*, 5-29
- Display mode, *Indirect*, 2-54
- DISPLAY operation, *RMS-11 Macro*, 3-6, 5-30, 5-31, 5-32 ; *RMS-11 User's Guide*, 1-18
 - BDB requirement, *RMS-11 Macro*, 2-8
 - I/O buffer requirement, *RMS-11 Macro*, 2-7
 - wildcard loop, *RMS-11 Macro*, 3-11
- /DISPLAY qualifier
 - BRU utility, *Utilities*, 3-16

- Display switch
 - ELI, *Error Logging*, 2-3, 2-12
- Distributed I/O, *Writing I/O Driver*, 1-18
- Distribution kit
 - See also Pregenerated kit
 - backup sets, *System Generation*, 2-3
 - contents, *System Generation*, 2-3
 - copying, *System Generation*, 2-6 to 2-26
 - on line, *System Generation*, 2-14 to 2-20
 - on VAX host with VAX-11 RSX, *System Generation*, 2-20 to 2-26
 - stand alone, *System Generation*, 2-6 to 2-14
 - definition, *System Generation*, 1-2
 - label, *System Generation*, 2-4
 - magnetic tape, *System Generation*, 2-3
 - RK07, *System Generation*, 2-4
 - RL02, *System Generation*, 2-3
 - types, *System Generation*, 2-3
- /DI switch
 - CMP utility, *Utilities*, 4-3
 - FLX utility, *Utilities*, 8-7
- DISWP: subroutine
 - initiating synchronous digital input sweep
 - K-series, *I/O Drivers*, 13-15
 - LADRV, *I/O Drivers*, 12-10
- \$DIV (Integer divide), *System Library*, 3-2
- Divide routine
 - divide (\$DIV), *System Library*, 3-2
 - double-precision divide (\$DDIV), *System Library*, 3-4
- Division binary operator
 - CFL expression, *Error Logging*, 5-13
- Division operator
 - summary, *MACRO-11*, 2-4
- DJ11 line multiplexer
 - SYSGEN question, *System Generation*, 3-62
- DJ11 multiplexer
 - TTDRV, *I/O Drivers*, 2-82
- DL11-E serial line multiplexer
 - TTDRV
 - remote line, *I/O Drivers*, 2-84
- DL11 serial line interface
 - TTDRV, *I/O Drivers*, 2-82
- DLD task, *System Management*, 11-6
 - how to use, *System Management*, 11-7 to 11-9
- .DLFNB routine
 - deleting file by filename block, *I/O Operations*, 4-26
- DLOG\$ directive, *Executive*, 5-65
- DLOG\$ directive (cont'd.)
 - ASSIGN command, *MCR*, 3-15
- DLON\$ directive, *Executive*, 5-65
 - ASSIGN command, *MCR*, 3-15
- /DL switch, *Task Builder*, 10-16
- DLX
 - XEDRV
 - definition, *I/O Drivers*, 10-26
 - incompatibility, *I/O Drivers*, 10-24
- DLXDF\$ macro
 - XEDRV, *I/O Drivers*, 10-3
- DM11-BB line interface
 - SYSGEN question, *System Generation*, 3-59
- DMAP attribute, *System Management*, 18-40
- DMC11 line interface
 - SYSGEN question, *System Generation*, 3-66
- DMO command
 - See DISMOUNT command
- /DMP, *Crash Dump Analyzer*, 2-4, 2-6
- DMPALL control file module, *Error Logging*, 4-7, A-5
- DMP utility
 - command line, *Utilities*, 5-2, A-8
 - error messages, *Utilities*, 5-10
 - example, *Utilities*, 5-7
 - mode
 - device, *Utilities*, 5-2
 - file, *Utilities*, 5-2
 - switches
 - /AS, *Utilities*, 5-3
 - /BA, *Utilities*, 5-3
 - /BL, *Utilities*, 5-4
 - /BY, *Utilities*, 5-4
 - /DC, *Utilities*, 5-4
 - /DENS, *Utilities*, 5-4
 - /FI, *Utilities*, 5-5
 - /HD, *Utilities*, 5-5
 - /HF, *Utilities*, 5-5
 - /HX, *Utilities*, 5-5
 - /ID, *Utilities*, 5-5
 - /LB, *Utilities*, 5-6
 - /LC, *Utilities*, 5-6
 - /LIM, *Utilities*, 5-6
 - /LW, *Utilities*, 5-6
 - /MD, *Utilities*, 5-6
 - /OCT, *Utilities*, 5-6
 - /R5, *Utilities*, 5-7
 - /RC, *Utilities*, 5-6
 - /RW, *Utilities*, 5-7
 - /SB, *Utilities*, 5-7
 - /SF, *Utilities*, 5-7
 - /SP, *Utilities*, 5-7

- DMP utility
 - switches (cont'd.)
 - /WD, *Utilities*, 5-7
- DMR11 line interface
 - SYSGEN question, *System Generation*, 3-66
- \$DMUL (Double-precision multiply), *System Library*, 3-3
- DNA
 - XEDRV, *I/O Drivers*, 10-27
- /DNS switch
 - FLX utility, *Utilities*, 8-8
- Documentation set
 - organization, *System Generation*, 4-7
- Dollar sign (\$)
 - in file specification, MCR, 2-6
 - ODT, *Program Development*, 5-6, 5-7, 5-8
 - specifying directory with, MCR, 3-95, 3-142
- Dollar sign (\$), *Debugging*, 2-5, 5-1; XDT, 2-11
 - reserved for DIGITAL system symbols, MACRO-11, 2-1, 2-5
- /DOLLARS qualifier
 - DATA command, *Batch and Queue*, 3-6
- 'D operator
 - for temporary decimal radix, MACRO-11, 5-26
- DOS-11
 - device support, *Utilities*, 8-1
 - transferring file, *Utilities*, 8-4
 - volume
 - deleting, *Utilities*, 8-10
 - directory listing, *Utilities*, 8-9
 - initializing, *Utilities*, 8-10
- DOS-11 format
 - accessing volume, MCR, 2-1
- DO statement
 - CFL, *Error Logging*, 5-34
- /DO switch
 - FLX utility, *Utilities*, 8-4
- DOSWP: subroutine
 - initiating synchronous digital output sweep
 - K-series, *I/O Drivers*, 13-16
 - LADRV, *I/O Drivers*, 12-13
- Dot (.) indicator
 - See Register indicator
- Double colon (::)
 - effect when defining a label, MACRO-11, 2-6
 - special character in MACRO-11, MACRO-11, 2-1
 - terminates a label, MACRO-11, 1-2
- Double equal sign (==)
 - effect when defining a label, MACRO-11, 2-6
 - special character in MACRO-11, MACRO-11, 2-1
 - used in direct assignment statements, MACRO-11, 2-6, 2-7
- Double equal sign colon (==:)
 - effect when defining a label, MACRO-11, 2-6
 - special character in MACRO-11, MACRO-11, 2-1
 - used in direct assignment statements, MACRO-11, 2-7
- Double-precision divide (\$DDIV), *System Library*, 3-4
- Double-precision multiply (\$DMUL), *System Library*, 3-3
- Double-precision routine, *System Library*, 3-3
- Double quotation mark (")
 - component of a term, MACRO-11, 2-14
 - for ASCII character storage, MACRO-11, 5-18
 - special character in MACRO-11, MACRO-11, 2-2
- Doubleword
 - address, *Writing I/O Driver*, 7-2
- DOUT: subroutine
 - digital output (K-series), *I/O Drivers*, 13-18
- DPB, *Executive*, 1-2; *I/O Drivers*, 1-12, 1-15; *Writing I/O Driver*, 4-10
 - details, *Writing I/O Driver*, 4-13, 4-15
 - diagnostic, *I/O Drivers*, 1-35
 - word data, *I/O Drivers*, 1-35
- dynamic creation, *I/O Drivers*, 1-15
- example, *I/O Drivers*, 1-12
- format, *Writing I/O Driver*, 4-13, 4-14
- usage in creating I/O packet, *Writing I/O Driver*, 3-2
- \$DPB\$\$, *Executive*, 1-6; *I/O Drivers*, 1-14
- /DPRO keyword
 - SET command, MCR, 3-163
- /DPR subkeyword
 - COMMAND LINE INTERPRETER
 - command, MCR, 3-43
- \$DQUMR routine, *Writing I/O Driver*, 7-16
- DR11-K digital I/O interface, *I/O Drivers*, 13-2
- DRDSP
 - directive dispatcher, *Writing I/O Driver*, 3-2
- D register, *Debugging*, 2-6, 5-4, 6-2

DRERR\$ macro
 I/O completion code, *I/O Drivers*, 1-37
 Drive, *RMS-11 Intro*, 2-1
 Drive and pack serial number switch
 See /SERIAL switch
 Driver, *Writing I/O Driver*, 1-2
 acceptance routine, *Writing I/O Driver*, 1-14
 accessing a controller, *Writing I/O Driver*, 1-19
 advanced features, *Writing I/O Driver*, 1-8, 1-10, 1-16, 1-17, 1-18, 2-4
 assembling during system generation, *Writing I/O Driver*, 5-4
 assembling in Micro/RSX, *Writing I/O Driver*, 5-15
 building
 loadable, *Writing I/O Driver*, 5-2
 resident, *Writing I/O Driver*, 5-2
 building in Micro/RSX, *Writing I/O Driver*, 5-15
 code, *Writing I/O Driver*, 1-3, 1-23
 creating, *Writing I/O Driver*, 4-4
 definition, *Writing I/O Driver*, 1-5
 function, *Writing I/O Driver*, 4-4
 general description, *Writing I/O Driver*, 4-5
 requirements, *Writing I/O Driver*, 4-54
 usage of symbolic offsets, *Writing I/O Driver*, 4-54
 conversion routine, *Writing I/O Driver*, 1-17
 converting RSX-11M to RSX-11M-PLUS
 adding \$GTPKT, *Writing I/O Driver*, A-3
 adding the DDT\$, *Writing I/O Driver*, A-4
 conditional symbols, *Writing I/O Driver*, A-3
 handling function, *Writing I/O Driver*, A-5
 interrupt entry, *Writing I/O Driver*, A-5
 LBN conversion, *Writing I/O Driver*, A-5
 modifying the driver, *Writing I/O Driver*, A-3
 reconfiguration, *Writing I/O Driver*, A-4
 using \$CVLBN, *Writing I/O Driver*, A-5

Driver

 converting RSX-11M to RSX-11M-PLUS (cont'd.)
 using INTSV\$, *Writing I/O Driver*, A-5
 volume valid, *Writing I/O Driver*, A-5
 database, *Writing I/O Driver*, 1-4, 1-23
 linkages, *Writing I/O Driver*, 1-23
 data structure, *Writing I/O Driver*, 1-4, 4-25
 accessing, *Writing I/O Driver*, 4-2
 details, *Writing I/O Driver*, 4-9
 symbolic offsets, *Writing I/O Driver*, 4-2
 DDT\$ macro call
 arguments, *Writing I/O Driver*, 4-5
 placement of, *Writing I/O Driver*, 4-5
 debugging, *Writing I/O Driver*, 1-24, 6-5, 6-10, 6-13 ; XDT, 2-2
 using CDA, *Writing I/O Driver*, 6-1
 using XDT, *Writing I/O Driver*, 6-2
 defining labels, *Writing I/O Driver*, 4-55
 definition, *System Generation*, 1-8
 details of code, *Writing I/O Driver*, 4-54, 4-65
 DIGITAL-supplied, *System Generation*, 1-8
 dual access, *Writing I/O Driver*, 1-12
 entry point
 See Driver entry point
 executable instructions, *Writing I/O Driver*, 1-4
 executing on correct processor, *Writing I/O Driver*, 1-20
 Executive
 choosing options, *Writing I/O Driver*, 5-10
 Executive services, *Writing I/O Driver*, 3-3 to 3-5
 for NPR devices (on PDP-11), *Writing I/O Driver*, 7-2
 full-duplex, *Writing I/O Driver*, 4-12
 GTPKT\$ macro call
 arguments, *Writing I/O Driver*, 4-6
 placement of, *Writing I/O Driver*, 4-6
 handling full-duplex operations, *Writing I/O Driver*, 1-14
 handling multiple I/O requests, *Writing I/O Driver*, 1-14
 I/O packet, *Writing I/O Driver*, 1-5
 I/O queue
 placement of I/O packet, *Writing I/O Driver*, 4-10

Driver (cont'd.)

I/O request

function codes for, *Writing I/O Driver*, 4-12

processing, *Writing I/O Driver*, 1-18

I/O requirements, *Writing I/O Driver*, 4-18

incorporating, *Writing I/O Driver*, 1-22, 1-23, 5-1

at system generation, *Writing I/O Driver*, 5-1

guidelines for, *Writing I/O Driver*, 5-1

into a Micro/RXS system, *Writing I/O Driver*, 1-22, 5-15

loadable, *Writing I/O Driver*, 5-1

resident, *Writing I/O Driver*, 5-1

initiating I/O, *Writing I/O Driver*, 1-19

interrupt handling, *Writing I/O Driver*, 1-8

interrupt level, *Writing I/O Driver*, 1-6, 1-8

interrupts, *Writing I/O Driver*, 7-1

INTSV\$ macro call

arguments, *Writing I/O Driver*, 4-7

placement of, *Writing I/O Driver*, 4-7

loadable

database, *Writing I/O Driver*, 5-1, 5-3

definition, *Writing I/O Driver*, 1-2

entry points for LOAD and UNLOAD, *Writing I/O Driver*, 4-9

incorporating, *Writing I/O Driver*, 1-22, 5-1, 5-3

rebuilding and reincorporating, *Writing I/O Driver*, 6-13

with loadable database, *Writing I/O Driver*, 1-23

with resident database, *Writing I/O Driver*, 1-24

loading, *Writing I/O Driver*, 5-6

pregenerated kit, *System Generation*, 5-44

macro call, *Writing I/O Driver*, 4-5

mapping with Executive, *Writing I/O Driver*, 1-2, 1-3

modifying data in UCB, *Writing I/O Driver*, 2-3

module

inserting into library, *Writing I/O Driver*, 5-4

partition, *Writing I/O Driver*, 5-5

predriver initiation, *Writing I/O Driver*, 3-1

process, *Writing I/O Driver*, 1-9

definition, *Writing I/O Driver*, 1-5

Driver (cont'd.)

processing

I/O request, *Writing I/O Driver*, 1-5, 3-3

interrupts, *Writing I/O Driver*, 1-6

programming

conventions, *Writing I/O Driver*, 4-1

requirements, *Writing I/O Driver*, 4-4 to 4-9

protocol, *Writing I/O Driver*, 1-8, 4-1

requesting I/O packet, *Writing I/O Driver*, 1-5, 1-19

resident, *Writing I/O Driver*, 1-23

definition, *Writing I/O Driver*, 1-2

incorporating, *Writing I/O Driver*, 1-23, 5-1, 5-2

with resident database, *Writing I/O Driver*, 1-24

sample source code, *Writing I/O Driver*, 8-3, 8-15

servicing

I/O request, *Writing I/O Driver*, 1-5

specifying as loadable, *Writing I/O Driver*, 4-9

standards, *Writing I/O Driver*, 4-1

system generation, *Writing I/O Driver*, 5-5
dialogue summary, *Writing I/O Driver*, 5-9

effect, *Writing I/O Driver*, 5-3

system macro call

arguments, *Writing I/O Driver*, 4-5

general functions, *Writing I/O Driver*, 4-5

task-building, *Writing I/O Driver*, 5-5

type, *Writing I/O Driver*, 1-2

UMR procedures, *Writing I/O Driver*, 7-2, 7-3

user-supplied, *System Generation*, 1-13

vectored, *Writing I/O Driver*, 1-21

XDT support, *Writing I/O Driver*, 6-2

Driver debugging, *Writing I/O Driver*, 6-1

Driver Dispatch Table, *Writing I/O Driver*, 4-5

address of routines, *Writing I/O Driver*, 1-4

entry points, *Writing I/O Driver*, 2-4

association of, *Writing I/O Driver*, 4-54

format, *Writing I/O Driver*, 4-54

generation of, *Writing I/O Driver*, 4-5

from DDT\$, *Writing I/O Driver*, 4-54

labels required, *Writing I/O Driver*, 4-55

layout, *Writing I/O Driver*, 4-55

Driver Dispatch Table (cont'd.)

linking to the driver code and database,
Writing I/O Driver, 4-54

Driver entry point, *Writing I/O Driver*, 1-4,
2-4

block check and conversion, *Writing I/O
Driver*, 4-57

cancel I/O, *Writing I/O Driver*, 4-57, 4-59,
4-60

controller status change, *Writing I/O Driver*,
4-57, 4-62, 4-63

deallocation, *Writing I/O Driver*, 4-61

device timeout, *Writing I/O Driver*, 4-57,
4-60

I/O initiation, *Writing I/O Driver*, 4-57,
4-59

interrupt, *Writing I/O Driver*, 4-57, 4-64,
4-65

next command, *Writing I/O Driver*, 4-60

power failure, *Writing I/O Driver*, 4-57,
4-61

queue optimization, *Writing I/O Driver*,
4-61

standard labels, *Writing I/O Driver*, 4-57

unit status change, *Writing I/O Driver*,
4-57, 4-63, 4-64

Driver-load or unload event

subpacket information, *Error Logging*, 4-68

Driver status flag, *System Management*, 4-13

Driver support

non-DIGITAL device, *Error Logging*, 4-21

DRQIO

performing redirect algorithm, *Writing I/O
Driver*, 3-2

\$DRQRQ routine, *Writing I/O Driver*, 1-17

locating the conversion routine, *Writing I/O
Driver*, 1-17

DRV11 digital I/O interface, *I/O Drivers*,
13-2

/DRV keyword

OPENREGISTER command, *MCR*, 3-128

.DSABL directive, *MACRO-11*, 5-13

summary, *MACRO-11*, 5-2

table of symbolic arguments, *MACRO-11*,
5-14

.DSABL FPT directive

disables floating-point truncation, enables
rounding, *MACRO-11*, 5-28

.DSABL GBL directive

effect on undefined symbols, *MACRO-11*,
2-6, 2-14

.DSABL LC directive

effect on valid character set, *MACRO-11*,
2-1

.DSABL LCM directive

effect on .IF IDN/.IF DIF, *MACRO-11*,
5-45

.DSABL LSB directive

terminates local symbol block, *MACRO-11*,
2-10

DSAR\$\$ directive, *Executive*, 5-68; *I/O
Drivers*, 1-11

DSCP\$\$ directive, *Executive*, 5-70

DSC utility

bad block information, *Utilities*, 6-8

command line, *Utilities*, 6-5, A-9

data transfer, *Utilities*, 6-18

device support, *Utilities*, 6-4

file label, *Utilities*, 6-6

messages, *Utilities*, 6-21

codes, *Utilities*, 6-21

error, *Utilities*, 6-22

I/O, *Utilities*, 6-34

operation overview, *Utilities*, 6-1, 6-17

switches

/APPEND, *Utilities*, 6-8

/BAD, *Utilities*, 6-8

/BL, *Utilities*, 6-11

/CMP, *Utilities*, 6-13

/DENS, *Utilities*, 6-13

options, *Utilities*, 6-13

/RW, *Utilities*, 6-15

/VE, *Utilities*, 6-17

DSK attribute, *Task Builder*, 3-30

DSP1P1 dispatcher module, *Error Logging*,
4-4, 4-11, 4-17, A-5

DATA subpackets, *Error Logging*, 4-65

DSP2P1 dispatcher module, *Error Logging*,
4-5, 4-11, 4-12 to 4-15, 4-17, A-5

DATA subpackets, *Error Logging*, 4-66

listing, *Error Logging*, 4-50 to 4-59

DSP3P1 dispatcher module, *Error Logging*,
4-5, 4-11, 4-17, A-5

DATA subpackets, *Error Logging*, 4-66

DSP4P1 dispatcher module, *Error Logging*,
4-5, 4-11, 4-17, A-5

DATA subpackets, *Error Logging*, 4-66

DSP5P1 dispatcher module, *Error Logging*,
4-5, 4-11, 4-17, 4-21, A-5

DATA subpackets, *Error Logging*, 4-66,
4-67

DSP6P1 dispatcher module, *Error Logging*,
4-5, 4-11, 4-17, A-5

- DSP6P1 dispatcher module (cont'd.)
 - DATA subpackets, *Error Logging*, 4-67
- DSP7P1 dispatcher module, *Error Logging*, 4-6, 4-11, 4-17, A-5
 - DATA subpackets, *Error Logging*, 4-67, 4-68
- DSP8P1 dispatcher module, *Error Logging*, 4-6, 4-11, 4-17, A-5
- D-space
 - See Data space
- DSPPAT option, *Task Builder*, 12-13
- /DS switch
 - MAC command, *Program Development*, 3-2
- \$DSW, *Executive*, 1-2
- DSW, *Executive*, 1-2
 - register, *Debugging*, 2-5, 5-3
- DSW\$ status code return, *I/O Drivers*, 1-37
- DT07 UNIBUS switch, *I/O Drivers*, 14-1;
 - Writing I/O Driver*, 1-18
- DTE, *System Management*, 1-19
 - CTRL/P command, *Utilities*, C-5
 - messages, *Utilities*, C-10
 - ODT, *Utilities*, C-6
 - requirements, *Utilities*, C-1
- DTE command
 - example, *Utilities*, C-6, C-9
 - format, *Utilities*, C-4
 - /ID option, *Utilities*, C-5
 - parameters, *Utilities*, C-4
- \$DTER Executive routine, *Error Logging*, 4-22
- DTRG\$ directive, *Executive*, 5-72
- Dual access, *Writing I/O Driver*, 1-12
 - operation of, *Writing I/O Driver*, 2-11
- Dual-access device
 - definition, *System Generation*, 1-9
- Dual-access support, *Writing I/O Driver*, 1-11
- Dual-port device
 - placing ports on line separately, *System Management*, 4-27
- Dual-port terminal
 - switching, *System Management*, 4-27
- DUDRV driver
 - activating RCT, *System Management*, 13-3
 - loading, *System Management*, 13-2
- /DUMP, *Crash Dump Analyzer*, 2-4, 2-6
- Dump
 - See PMD
 - See Postmortem Dump
 - See Snapshot dump
- DUP11 line interface
 - SYSGEN question, *System Generation*, 3-67
- DUPLICATE
 - RMSDES utility, *RMS-11 Utilities*, 2-40, 2-42
 - area section, *RMS-11 Utilities*, 2-44
- Duplicate key, *RMS-11 User's Guide*, 6-8; *RMS-11 Intro*, 3-10
- DV.UMD bit
 - UCB
 - set for diagnostic, *I/O Drivers*, 1-34
- \$DVCER Executive routine, *Error Logging*, 4-22, 4-23
- \$DVERR Executive routine
 - See \$DVCER Executive routine
- \$DVMSG routine, *Writing I/O Driver*, 7-17
- /DV switch
 - VFY utility, *Utilities*, 14-3
- \$DVTMO Executive routine, *Error Logging*, 4-22
- Dwell parameter
 - XRATE: subroutine
 - K-series, *I/O Drivers*, 13-27
 - LADRV, *I/O Drivers*, 12-23
- DYNAMIC_TABLE statement
 - CFL, *Error Logging*, 5-37
 - See also FILE statement
- Dynamic checkpoint space
 - allocation, *System Management*, 1-5
- Dynamic memory
 - See Memory
- Dynamic region, *Executive*, 3-5; *Task Builder*, 2-18, 2-20
 - creating, *Executive*, 5-53; *Task Builder*, 5-46
 - example, *Task Builder*, 5-46 to 5-49
- Dynamic storage region
 - See Pool
- DZ11/DZQ11/DZV11 line multiplexer
 - SYSGEN question, *System Generation*, 3-63
- DZ11 serial line multiplexer
 - TTDRV, *I/O Drivers*, 2-83
 - remote line, *I/O Drivers*, 2-84
 - serial line
 - with modem, *I/O Drivers*, 2-84
- DZQ11 serial line multiplexer
 - TTDRV, *I/O Drivers*, 2-83
- DZV11 serial line multiplexer
 - TTDRV, *I/O Drivers*, 2-83

E

.EXTEND routine
 disk driver, *I/O Drivers*, 4-8
E1144 CPU-level module, *Error Logging*, 4-7, A-6
E117X CPU-level module, *Error Logging*, 4-7, A-6
E118X CPU-level module, *Error Logging*, 4-7, A-6
E11XX CPU-level module, *Error Logging*, 4-7, A-6
/EA switch, *Task Builder*, 10-17
EBCDIC character set, *MCR*, 3-123
/EBC keyword
 SET command, *MCR*, 3-164
 SET command (VMR), *System Management*, 5-54
Echo, *Introduction*, 1-6
/ECHO keyword
 SET command, *MCR*, 3-165
 SET command (VMR), *System Management*, 5-54
Echo loops
 intersystem, *Utilities*, C-2, C-5
E command, *Debugging*, 2-7, 6-2, 6-3
EDI editor, *Program Development*, 1-4; *DCL*, 4-26
 abbreviating strings, *Program Development*, 2-15
 altering text, *Program Development*, 7-4
 asterisk (*), *Program Development*, 2-9; *Utilities*, 7-8
 basic commands, *Utilities*, 7-10
 block mode, *Program Development*, 1-4
 character erase, *Utilities*, 7-7
 close & exit commands, *Utilities*, 7-16
 command line, *Utilities*, A-10
 commands, *Program Development*, 2-11 to 2-17
 Add, *Utilities*, 7-17
 Add & Print, *Utilities*, 7-17
 ALTMODE key, *Utilities*, 7-17
 append, *Program Development*, 2-16
 Begin, *Utilities*, 7-18
 begin, *Program Development*, 2-13
 Block On/Off, *Utilities*, 7-18
 Bottom, *Utilities*, 7-19
 Change, *Utilities*, 7-19
 change, *Program Development*, 2-15, 7-4
 Close, *Utilities*, 7-20

EDI editor

commands (cont'd.)

 Close & Delete, *Utilities*, 7-20
 Close Secondary, *Utilities*, 7-20
 Concatenation Character, *Utilities*, 7-20
 CTRL/Z, *Utilities*, 7-21
 Delete, *Utilities*, 7-21
 Delete & Print, *Utilities*, 7-22
 delete and print, *Program Development*, 2-16
 descriptions, *Utilities*, 7-17
 End, *Utilities*, 7-22
 end, *Program Development*, 2-13
 Erase, *Utilities*, 7-23
 ESCAPE key, *Utilities*, 7-23
 Exit, *Utilities*, 7-23
 exit, *Program Development*, 2-9
 closing file, *Program Development*, 7-7
 creating new file, *Program Development*, 2-11, 2-17, 7-4
 Exit & Delete, *Utilities*, 7-24
 File, *Utilities*, 7-24
 Find, *Utilities*, 7-24
 Form Feed, *Utilities*, 7-25
 Insert, *Utilities*, 7-25
 insert, *Program Development*, 2-17, 7-7
 Kill, *Utilities*, 7-26
 Line Change, *Utilities*, 7-26
 list, *Program Development*, 2-12
 List on Pseudo Device, *Utilities*, 7-26
 List on Terminal, *Utilities*, 7-27
 Locate, *Utilities*, 7-27
 locate, *Program Development*, 2-13, 2-17, 7-4, 7-5, 7-7
 Macro, *Utilities*, 7-28
 Macro Call, *Utilities*, 7-28
 Macro Execute, *Utilities*, 7-29
 Macro Immediate, *Utilities*, 7-30
 Next, *Utilities*, 7-30
 Next & Print, *Utilities*, 7-31
 Open Secondary, *Utilities*, 7-31
 Output On/Off, *Utilities*, 7-32
 Overlay, *Utilities*, 7-32
 Page, *Utilities*, 7-33
 Page Find, *Utilities*, 7-33
 Page Locate, *Utilities*, 7-33
 page locate, *Program Development*, 2-14
 Paste, *Utilities*, 7-34

EDI editor

commands (cont'd.)

- Print, *Utilities*, 7-34
- Read, *Utilities*, 7-34
- Renew, *Utilities*, 7-35
- renew, *Program Development*, 2-14
- RETURN key, *Utilities*, 7-7, 7-35
- Retype, *Utilities*, 7-36
- Save, *Utilities*, 7-36
- Search & Change, *Utilities*, 7-37
- Select Primary, *Utilities*, 7-37
- Select Secondary, *Utilities*, 7-38
- Size, *Utilities*, 7-38
- Tab On/Off, *Utilities*, 7-38
- Top, *Utilities*, 7-39
- Top of File, *Utilities*, 7-39
- Type, *Utilities*, 7-40
- type, *Program Development*, 2-12, 2-13, 2-16
- Unsave, *Utilities*, 7-40
- Uppercase On/Off, *Utilities*, 7-40
- Verify On/Off, *Utilities*, 7-42
- Write, *Utilities*, 7-43
- control mode, *Utilities*, 7-3
- convention
 - terminal, *Utilities*, 7-6
- correcting
 - source file error, *Program Development*, 7-4
 - task error, *Program Development*, 4-8, 7-8
- creating file, *Program Development*, 2-8, 2-9, 2-11, 7-2
- deleting lines, *Program Development*, 2-16
- device output commands, *Utilities*, 7-16
- displaying text, *Program Development*, 2-12
- ellipsis, *Utilities*, 7-8
- ellipsis (...), *Program Development*, 2-15
- ESCAPE key, *Program Development*, 2-12
- example
 - editing, *Utilities*, 7-44
 - file editing, *Utilities*, 7-44
 - Macro commands, *Utilities*, 7-51
 - Macro Immediate command, *Utilities*, 7-50
 - Save and Unsave commands, *Utilities*, 7-48
- file input commands, *Utilities*, 7-15
- file output commands, *Utilities*, 7-15
- file specification
 - default, *Utilities*, 7-3
 - format, *Utilities*, 7-2

EDI editor (cont'd.)

- initiating (invoking), *Utilities*, 7-2
- input
 - initial, *Program Development*, 2-9, 7-3
 - terminating, *Program Development*, 2-9
- inserting
 - characters, *Program Development*, 2-16
 - code in source file, *Program Development*, 2-17
 - lines, *Program Development*, 2-9, 2-17
- insert mode, *Program Development*, 2-17
- line erase, *Utilities*, 7-7
- locating text, *Program Development*, 2-13, 7-4, 7-5
- locator commands, *Utilities*, 7-13
- Macro commands, *Utilities*, 7-15
- messages, *Utilities*, 7-53
 - error requiring EDI restart, *Utilities*, 7-58
 - fatal error, *Utilities*, 7-60
 - file access error, *Utilities*, 7-57
 - informational, *Utilities*, 7-53
- paging, *Utilities*, 7-5
- positioning line pointer, *Program Development*, 2-13, 2-14
- RETURN key, *Program Development*, 2-9, 2-12, 2-17, 7-7
- setup commands, *Utilities*, 7-12
- slash (/), *Program Development*, 2-15
- text access mode, *Utilities*, 7-4
 - block mode, *Utilities*, 7-4
 - line-by-line mode, *Utilities*, 7-4
- text file
 - creating, *Utilities*, 7-2
 - input, *Utilities*, 7-6
 - output, *Utilities*, 7-6
 - secondary, *Utilities*, 7-6
- text manipulation commands, *Utilities*, 7-14
- text modification commands, *Utilities*, 7-14
- usage notes, *Utilities*, 7-43
- EDIT command, DCL, 4-20 to 4-28;
Introduction, 3-7
- EDIT/EDI, DCL, 4-26 to 4-28, 9-16
- EDIT/EDT, DCL, 4-20 to 4-23
- EDIT/SLP, DCL, 4-24 to 4-25, 9-16
- /OUTPUT qualifier, *Introduction*, 5-9
- /RECOVER qualifier, DCL, 4-21
- /EDIT keyword
 - SET command, MCR, 3-165
 - SET command (VMR), *System Management*, 5-54

Editor

See also EDT editor

See also SLP utility

See EDI editor

invoking, *Program Development*, 1-3

text, *Program Development*, 1-3 to 1-4

EDI utility

See also EDI editor

\$EDMSG (Edit message), *System Library*, 6-8

EDT editor, *Program Development*, 1-3; DCL,
4-20 ; *Introduction*, 2-2

Best Reference, *EDT Editor Manual*

deleting text, *Introduction*, 2-8, 2-15

inserting text, *Introduction*, 2-8

moving text, *Introduction*, 2-9, 2-17

undeleting text, *Introduction*, 2-9

EDTINI.EDT file, *Introduction*, 2-2

E error

.END, *MACRO-11*, 5-33

Efn parameter

general (TTDRV), *I/O Drivers*, 2-12

IO.ATA function (TTDRV), *I/O Drivers*,
2-23

IO.ATT function, *I/O Drivers*, 1-27

IO.CCO function (TTDRV), *I/O Drivers*,
2-26

IO.DET function, *I/O Drivers*, 1-28

IO.EIO function (TTDRV), *I/O Drivers*,
2-28

IO.GTS function (TTDRV), *I/O Drivers*,
2-35

IO.HNG function (TTDRV), *I/O Drivers*,
2-37

IO.KIL function, *I/O Drivers*, 1-29

IO.RAL function (TTDRV), *I/O Drivers*,
2-38

IO.RLB function, *I/O Drivers*, 1-30

IO.RNE function (TTDRV), *I/O Drivers*,
2-40

IO.RPR function (TTDRV), *I/O Drivers*,
2-42

IO.RST function (TTDRV), *I/O Drivers*,
2-45

IO.RTT function (TTDRV), *I/O Drivers*,
2-47

IO.RVB function, *I/O Drivers*, 1-31

IO.SMC function (TTDRV), *I/O Drivers*,
2-62

IO.WAL function (TTDRV), *I/O Drivers*,
2-49

Efn parameter (cont'd.)

IO.WBT function (TTDRV), *I/O Drivers*,
2-51

IO.WLB function, *I/O Drivers*, 1-32

IO.WVB function, *I/O Drivers*, 1-33

IO.XCL function (XEDRV), *I/O Drivers*,
10-19

IO.XIN function (XEDRV), *I/O Drivers*,
10-20

IO.XOP function (XEDRV), *I/O Drivers*,
10-6

IO.XRC function (XEDRV), *I/O Drivers*,
10-15

IO.XSC function (XEDRV), *I/O Drivers*,
10-7

IO.XTL function (XEDRV), *I/O Drivers*,
10-21

IO.XTM function (XEDRV), *I/O Drivers*,
10-12

QIO\$ basic syntax, *I/O Drivers*, 1-7

SF.GMC function (TTDRV), *I/O Drivers*,
2-53

WTSE\$ macro, *I/O Drivers*, 1-24

ELAW\$ directive, *Executive*, 5-74

Element extraction unary suffix operator

CFL expression, *Error Logging*, 5-10

Elevator

definition, *Writing I/O Driver*, 1-17

ELGF\$ directive, *Executive*, 5-76

ELI, *Error Logging*, 1-2, 1-4

command line

DCL, *Error Logging*, 2-2

defaults, *Error Logging*, 2-3

MCR, *Error Logging*, 2-2

MCR and DCL equivalents, *Error
Logging*, 2-1

control packets, *Error Logging*, 2-6

error messages, *Error Logging*, 2-15 to 2-16

installing, *Error Logging*, 2-2

invoking, *Error Logging*, 2-2

from any terminal, *Error Logging*, 2-2

from privileged terminal, *Error Logging*,
2-2

nonprivileged use, *Error Logging*, 2-2

privileged use, *Error Logging*, 2-2

switches

display, *Error Logging*, 2-3, 2-12

error limiting, *Error Logging*, 2-3, 2-8,
2-9

file-naming, *Error Logging*, 2-3, 2-10

logging, *Error Logging*, 2-3, 2-5

table of, *Error Logging*, 2-3 to 2-5

- Eliminate Address Window directive, *Executive*, 5-74
- Eliminate Group Global Event Flags directive, *Executive*, 5-76
- Eliminate Virtual Terminal directive, *Executive*, 5-78
- /ELIM keyword
 - CLI command, *MCR*, 3-41
 - FLA command, *MCR*, 3-65
- Ellipsis
 - EDI editor, *Utilities*, 7-8
- Ellipsis (...)
 - EDI editor, *Program Development*, 2-15
- /EL switch, *Task Builder*, 10-18
- ELVT\$ directive, *Executive*, 5-78
- Emit Status directive, *Executive*, 5-80
- EML11 device-level module, *Error Logging*, 4-8, A-6
- EMST\$ directive, *Executive*, 5-80
- EMT 377 instruction, *Executive*, 1-1
- EMT instruction, *MACRO-11*, 4-8
- EMT trap instruction, *XDT*, 1-8, 2-5
- Emulation (terminal), *System Management*, 1-19
- /EN:nnn switch
 - QUE /DEL command, *Batch and Queue*, 2-10
 - QUE /LI command, *Batch and Queue*, 2-14
- .ENABL AMA directive
 - difference between absolute and relative addressing, *MACRO-11*, 4-7
- .ENABL directive, *MACRO-11*, 5-13
 - summary, *MACRO-11*, 5-2
 - table of symbolic arguments, *MACRO-11*, 5-14
- Enable AST Recognition directive, *Executive*, 5-82
- Enable Checkpointing directive, *Executive*, 5-84
- .ENABLE directive, *Indirect*, 2-53
- .ENABLE GLOBAL directive, *Indirect*, 2-4
- /ENABLE keyword, *MCR*, 3-42
- ENABLE statement
 - CFL, *Error Logging*, 5-39
- .ENABL FPT directive
 - enables floating-point truncation, disables rounding, *MACRO-11*, 5-28
- .ENABL GBL directive
 - effect on undefined symbols, *MACRO-11*, 2-6
- .ENABL LCM directive
 - effect on .IF IDN/.IF DIF, *MACRO-11*, 5-45
- .ENABL LSB directive
 - begins local symbol block, *MACRO-11*, 2-10
 - may confuse automatic local symbol generation in macro, *MACRO-11*, 6-10
- .ENABL MCL directive
 - relationship to .LIBRARY, *MACRO-11*, 5-50
- ENAR\$\$ directive, *Executive*, 5-82; *I/O Drivers*, 1-11
- ENCP\$\$ directive, *Executive*, 5-84
- Encryption routine
 - user-written support for, *System Management*, 2-1
- .ENDC directive
 - error if outside conditional block, *MACRO-11*, 5-46
 - not required with .IIF, *MACRO-11*, 5-49
 - summary, *MACRO-11*, 5-2
- End command
 - EDI editor, *Program Development*, 2-13; *Utilities*, 7-22
- .END directive, *Indirect*, 2-4, 2-58; *Program Development*, 2-8, 3-4, 4-3, 4-8; *Task Builder*, 3-26; *MACRO-11*, 5-33
 - summary, *MACRO-11*, 5-2
- .ENDM directive, *MACRO-11*, 6-3
 - cannot have label, *MACRO-11*, 6-3
 - can terminate repeat blocks, *MACRO-11*, 6-3
 - summary, *MACRO-11*, 6-1
 - terminates macro definition, *MACRO-11*, 6-3
- End-of-block indicator
 - sequential files, *RMS-11 User's Guide*, 3-2
- End-of-file
 - sequential files, *RMS-11 User's Guide*, 3-2
- End-of-file label
 - tape, *I/O Operations*, G-8
- End-of-file READ\$ macro, *I/O Operations*, 3-33
- End of GSD record type, *Task Builder*, A-13
- End-of-module record type, *Task Builder*, A-36
- End-of-tape handling, *I/O Operations*, G-9
- End-of-volume label
 - tape, *I/O Operations*, G-8
- .ENDR directive, *MACRO-11*, 6-20

.ENDR directive (cont'd.)

- summary, *MACRO-11*, 6-1
- terminates .IRP, *MACRO-11*, 6-18
- terminates .IRPC, *MACRO-11*, 6-19
- terminates .REPT, *MACRO-11*, 6-21

/EN switch

- PIP utility, *Utilities*, 12-13

ENTER key, DCL, 3-13

ENTER operation, RMS-11 User's Guide, 1-17

- file versions, *RMS-11 User's Guide*, A-3
- remote access, *RMS-11 User's Guide*, B-1

.ENTER routine

- inserting directory entry, *I/O Operations*, 4-19

/ENTRY:nnn qualifier

- DELETE command, *Batch and Queue*, 2-10
- SHOW QUEUE command, *Batch and Queue*, 2-14

Entry point, Program Development, 6-5, 6-6

- table, *Program Development*, 6-5, 6-9
- zero entry points, *Program Development*, 6-7

/ENTRY qualifier

- ANALYZE/ERROR_LOG command, *Error Logging*, 3-5, 3-10

- See also /PACKET switch

Entry type

- completion routine definition, *Task Builder*, A-12
- complex relocation, *Task Builder*, A-24
- control section name, *Task Builder*, A-6
- global additive displaced relocation, *Task Builder*, A-19
- global additive relocation, *Task Builder*, A-19
- global displaced relocation, *Task Builder*, A-18
- global relocation, *Task Builder*, A-17
- global symbol name, *Task Builder*, A-8
- internal displaced relocation, *Task Builder*, A-18
- internal relocation, *Task Builder*, A-17
- internal symbol name, *Task Builder*, A-7
- location counter definition, *Task Builder*, A-20
- location counter modification, *Task Builder*, A-20
- mapped array declaration, *Task Builder*, A-12
- module name, *Task Builder*, A-6
- program limits, *Task Builder*, A-21

Entry type (cont'd.)

- program section additive displaced relocation, *Task Builder*, A-23
- program section additive relocation, *Task Builder*, A-23
- program section displaced relocation, *Task Builder*, A-22
- program section name, *Task Builder*, A-9
- program section relocation, *Task Builder*, A-21
- program version identification, *Task Builder*, A-11
- resident library relocation, *Task Builder*, A-26
- transfer address, *Task Builder*, A-7

EOD command, Batch and Queue, 3-2

- format, *Batch and Queue*, 3-8

<EOF> symbol, Indirect, 2-10

:EOF option

- QUE /STO command, *System Management*, 3-33

/EOF switch

- PIP utility, *Utilities*, 12-14

EOJ command

- format, *Batch and Queue*, 3-6

:EOJ option

- QUE /STO command, *System Management*, 3-33

EOL function

- EDT editor, *Introduction*, 2-7

/EO switch

- RMSCNV utility, *RMS-11 Utilities*, 4-8

EPKDF.MAC system macro, Error Logging, C-1

EPKDF\$, Crash Dump Analyzer, C-17

EPMDF\$ macro

- XEDRV, *I/O Drivers*, 10-3

/EP switch

- LBR utility, *Utilities*, 10-18

EQ conditional assembly test, MACRO-11, 5-45

Equality binary operator

- CFL expression, *Error Logging*, 5-12

Equal sign (=), DCL, 1-8

- in cross-reference table, *MACRO-11*, 7-15
- special character in *MACRO-11*, *MACRO-11*, 2-1
- use as character string delimiter, *MACRO-11*, 5-20
- used in direct assignment statements, *MACRO-11*, 2-6, 2-7

- Equal sign colon (=):
 - special character in MACRO-11, *MACRO-11*, 2-1
 - used in direct assignment statements, *MACRO-11*, 2-7
- Equal sign command (=), *Debugging*, 2-7; *XDT*, 2-12
- ZAP utility, *Utilities*, 15-18
- Equal sign operator (=)
 - See Operator
- ER\$ACT
 - asynchronous operations, *RMS-11 User's Guide*, 3-14, 4-14, 7-8
- ER\$CUR
 - DELETE operation, *RMS-11 User's Guide*, 4-7
 - TRUNCATE operation, *RMS-11 User's Guide*, 3-12
 - UPDATE operation, *RMS-11 User's Guide*, 3-12, 4-12, 7-6
- ER\$DEL
 - FIND operation, *RMS-11 User's Guide*, 4-8, 7-3
 - GET operation, *RMS-11 User's Guide*, 4-11, 7-4
- ER\$EOF
 - FIND operation, *RMS-11 User's Guide*, 3-8, 4-8, 7-3
 - GET operation, *RMS-11 User's Guide*, 3-10, 4-10, 7-5
 - PUT operation, *RMS-11 User's Guide*, 3-11
- ER\$-family symbol
 - declaring, *RMS-11 Macro*, C-3
 - value, *RMS-11 Macro*, A-1 to A-19
- ER\$IOP
 - UPDATE operation, *RMS-11 User's Guide*, 3-12
- ER\$KEY
 - FIND operation, *RMS-11 User's Guide*, 3-8
 - GET operation, *RMS-11 User's Guide*, 3-10
- ER\$LIB
 - and resident libraries, *RMS-11 User's Guide*, 7-8
- ER\$MRN
 - FIND operation, *RMS-11 User's Guide*, 4-8
 - GET operation, *RMS-11 User's Guide*, 4-10
- ER\$NEF
 - PUT operation, *RMS-11 User's Guide*, 3-10
- ER\$RAC
 - PUT operation, *RMS-11 User's Guide*, 3-10
- ER\$REX
 - PUT operation, *RMS-11 User's Guide*, 4-11
- ER\$RFA
 - FIND operation, *RMS-11 User's Guide*, 3-8, 7-3
 - GET operation, *RMS-11 User's Guide*, 3-10, 7-5
- ER\$RFM
 - UPDATE operation, *RMS-11 User's Guide*, 3-12
- ER\$RLK
 - and shared access, *RMS-11 User's Guide*, 2-10
- ER\$RNF
 - FIND operation, *RMS-11 User's Guide*, 4-8, 7-3
 - GET operation, *RMS-11 User's Guide*, 4-10 to 4-11
- ER\$RSZ
 - UPDATE operation, *RMS-11 User's Guide*, 3-12
- ERASE
 - wildcard operations, *RMS-11 User's Guide*, A-4
- Erase command
 - EDI editor, *Utilities*, 7-23
- .ERASE directive, *Indirect*, 2-59
- \$ERASE macro, *RMS-11 Macro*, 5-40
 - example, *RMS-11 Macro*, 7-11
- ERASE operation, *RMS-11 Macro*, 3-8, 5-36 to 5-38; *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
- BDB requirement, *RMS-11 Macro*, 2-8
- \$ERASE macro, *RMS-11 Macro*, 5-40
- I/O buffer requirement, *RMS-11 Macro*, 2-7
- IFAB requirement, *RMS-11 Macro*, 2-5
- remote access, *RMS-11 User's Guide*, B-2
- wildcard loop, *RMS-11 Macro*, 3-10 to 3-12; *RMS-11 User's Guide*, A-4
- E register, *Debugging*, 2-6, 5-4
- ERK05 device-level module, *Error Logging*, 2-8, 4-8, A-6
- ERK67 device-level module, *Error Logging*, 2-8, 4-8, A-6
- ERL12 device-level module, *Error Logging*, 2-8, 4-8, A-6
- ERLCFL error messages, *Error Logging*, 5-44 to 5-55
- ERLCNF error messages, *Error Logging*, 3-27 to 3-33
- ERLRPT error messages, *Error Logging*, 3-33 to 3-49

/ERL switch

FMT utility, *Utilities*, 9-3

ERM05 device-level module, *Error Logging*,
2-8, A-6

ERM23 device-level module, *Error Logging*,
2-8, 4-8, 4-12 to 4-15, 4-36 to 4-50, A-6

ERM80 device-level module, *Error Logging*,
2-8, 4-8, A-6

ERP07 device-level module, *Error Logging*,
2-8, 4-8, A-6

ERP23 device-level module, *Error Logging*,
2-8, 4-8, A-6

ERP456 device-level module, *Error Logging*,
2-8, 4-8, A-6

ERR attribute, *System Management*, 18-37

<ERRCTL> symbol, *Indirect*, 2-12

ERRDEFINE.CFS, *Error Logging*, 3-23

ERRLOG, *Error Logging*, 1-1, 1-3, 1-4

backup file, *Error Logging*, 1-4, 2-3

defaults, *Error Logging*, 2-3

error messages, *Error Logging*, 2-16 to 2-18

installing, *Error Logging*, 2-2

log file, *Error Logging*, 1-3, 1-4

ERRLOG.ULB, *Error Logging*, 2-7, 3-3, 3-29

universal library, *Error Logging*, A-1, A-5

<ERRNUM> symbol, *Indirect*, 2-12

Error

See also Error return

assembly-time, *RMS-11 Macro*, 2-20

codes, *Debugging*, A-2; *XDT*, 2-6, 3-2

file operations, *I/O Drivers*, C-1; *I/O*

Operations, 2-45

See also Error code

data compare, *System Management*, 12-13

conditions for, *System Management*,
12-47

detection, *Debugging*, A-1; *XDT*, 3-1

hard receive (TTDRV), *I/O Drivers*,
2-21, 2-78

diagnostic

limiting, *Task Builder*, 10-56, 11-29

double-bit (multiprocessor systems), *System*
Management, 11-5

facility codes, *XDT*, 2-6

fatal, *RMS-11 Macro*, 2-16

handler, *RMS-11 Macro*, 2-17

handling, *Task Builder*, 4-12

hard, *System Management*, 10-7, 11-3

hardware (XEDRV)

Ethernet, *I/O Drivers*, 10-3

limit

See also Error limit

Error

limit (cont'd.)

IOX

altering, *System Management*,
12-26

nonrecoverable, *System Management*, 10-7,
11-3

TKTN message, *System Management*,
11-4

parity

uncorrectable, *System Management*,
11-5

queue I/O, *System Management*, 12-13

recoverable, *System Management*, 11-3

retry (tape driver), *I/O Drivers*, 6-13

select (tape driver), *I/O Drivers*, 6-13

soft, *System Management*, 11-3

SYSGEN, *System Generation*, 3-3

system initialization, *System Generation*,
4-14

task image, *Debugging*, A-2; *XDT*, 3-2

T-bit, *XDT*, 2-5

ERROR.MAC, *Error Logging*, 4-21

/ERROR_LIMIT qualifier, *Task Builder*, 11-29

Error code, *RMS-11 User's Guide*, 3-7, 4-7,
7-2; *MACRO-11*, D-1

A

.ASCII, *MACRO-11*, 5-20

.ASCIZ, *MACRO-11*, 5-21

.BLKB/.BLKW, *MACRO-11*, 5-32

.BYTE, *MACRO-11*, 5-17

.ENDM, *MACRO-11*, 6-3

from .ENABL/.DSABL, *MACRO-11*,
5-13

.IF, *MACRO-11*, 5-45

.IIF, *MACRO-11*, 5-49

in bad expression, *MACRO-11*, 2-14

inconsistent current location counter
attribute, *MACRO-11*, 2-12

invalid floating-point number,
MACRO-11, 5-28

invalid forward reference defining
global, *MACRO-11*, 2-8

.IRP, *MACRO-11*, 6-18

.IRPC, *MACRO-11*, 6-19

.LIST/.NLIST, *MACRO-11*, 5-8

.MACRO, *MACRO-11*, 6-3

.NARG, *MACRO-11*, 6-13

.NCHR, *MACRO-11*, 6-14

.NTYPE, *MACRO-11*, 6-15

on EMT and TRAP instructions,
MACRO-11, 4-8

Error code

A (cont'd.)

.PSECT, *MACRO-11*, 5-34, 5-37
.RAD50, *MACRO-11*, 5-22
.REPT, *MACRO-11*, 6-21
.RESTORE, *MACRO-11*, 5-40
.SAVE, *MACRO-11*, 5-40
single or double quotation mark
character storage, *MACRO-11*,
5-19
.TITLE, *MACRO-11*, 5-10

B

from odd current location counter,
MACRO-11, 5-31

block locking, *I/O Operations*, 2-45

D

multiply defined label reference,
MACRO-11, 1-3

E

.END, *MACRO-11*, 5-33
ER\$ACT, *RMS-11 User's Guide*, 3-14, 4-14,
7-8
ER\$CUR, *RMS-11 User's Guide*, 3-12, 4-7,
4-12, 7-6
ER\$DEL, *RMS-11 User's Guide*, 4-8, 4-11,
7-3, 7-5
ER\$EOF, *RMS-11 User's Guide*, 3-8, 3-10
to 3-11, 4-8, 4-10, 7-3, 7-5
ER\$IOP, *RMS-11 User's Guide*, 3-12
ER\$KEY, *RMS-11 User's Guide*, 3-8, 3-10
ER\$LIB, *RMS-11 User's Guide*, 8-1
ER\$MRN, *RMS-11 User's Guide*, 4-8, 4-10
ER\$NEF, *RMS-11 User's Guide*, 3-10
ER\$RAC, *RMS-11 User's Guide*, 3-10
ER\$REX, *RMS-11 User's Guide*, 4-11
ER\$RFA, *RMS-11 User's Guide*, 3-8, 3-10,
7-3, 7-5
ER\$RFM, *RMS-11 User's Guide*, 3-12
ER\$RLK, *RMS-11 User's Guide*, 2-10
ER\$RNF, *RMS-11 User's Guide*, 4-8, 4-10
to 4-11, 7-3, 7-5
ER\$RSZ, *RMS-11 User's Guide*, 3-12
file operations, *I/O Operations*, K-1

I

.ASCII, *MACRO-11*, 5-20
.ASCIZ, *MACRO-11*, 5-21
invalid character, *MACRO-11*, 2-3
.RAD50, *MACRO-11*, 5-22

M

multiply defined label, *MACRO-11*, 1-3
redefine permanently assigned symbol,
MACRO-11, 2-7

Error code (cont'd.)

MACRO-11

A, *Program Development*, 3-3
E, *Program Development*, 3-4
Q, *Program Development*, 3-4
U, *Program Development*, 3-4

N

number not in current radix,
MACRO-11, 2-13

O

.END, *MACRO-11*, 5-33
.ENDC, *MACRO-11*, 5-46
.IF directive nesting, *MACRO-11*, 5-46
.MCALL, *MACRO-11*, 6-22
.MDELETE, *MACRO-11*, 6-22
.MEXIT, *MACRO-11*, 6-4
.NARG, *MACRO-11*, 6-13
.NTYPE, *MACRO-11*, 6-15
with .IFF, .IFT, .ITF, *MACRO-11*, 5-46

P

.ERROR, *MACRO-11*, 6-16
inconsistent program section attribute,
MACRO-11, 2-12
multiple definition of local symbol,
MACRO-11, 2-10
when defining local symbols,
MACRO-11, 5-14

Q

.EVEN, *MACRO-11*, 5-31
for invalid floating-point number,
MACRO-11, 5-28
in bad expression, *MACRO-11*, 2-14
invalid syntax, *MACRO-11*, 2-3
.ODD, *MACRO-11*, 5-31
.TITLE, *MACRO-11*, 5-10
too many arguments in macro call,
MACRO-11, 6-9

R

invalid redefinition of default register
symbol, *MACRO-11*, 2-9

shared file, *I/O Operations*, 2-45

T

number more than 16 bits long,
MACRO-11, 2-13

U, *MACRO-11*, 2-6

invalid forward reference, *MACRO-11*,
2-8
.MCALL, *MACRO-11*, 6-22
relationship to .ENABL/.DSABL GBL,
MACRO-11, 5-14
relationship to .ENABL/.DSABL MCL
or GBL, *MACRO-11*, 5-14

- Error code
 - U (cont'd.)
 - undefined symbol, *MACRO-11*, 2-14
 - Z
 - flags inconsistent instructions, *MACRO-11*, 4-1
 - table of applicable instructions, *MACRO-11*, 4-2
- Error code (RMSIFL)
 - sort routine, *RMS-11 Utilities*, D-1
- .ERROR directive, *MACRO-11*, 6-16
 - summary, *MACRO-11*, 6-1
- Error limit
 - changing, *Error Logging*, 2-3, 2-9
 - default, *Error Logging*, 2-3
 - device mount, *Error Logging*, 2-9
 - error logging, *Error Logging*, 2-1
 - notification, *Error Logging*, 1-4
 - resetting, *Error Logging*, 1-4, 2-9, 2-10
 - starting, *Error Logging*, 2-5, 2-8
 - stopping, *Error Logging*, 2-5, 2-8
 - system reboot, *Error Logging*, 2-9
- ERRORLIMIT command
 - IOX, *System Management*, 12-26
 - example, *System Management*, 12-26
 - FILES11, SELECT, and VERIFY
 - command lines, *System Management*, 12-26
 - initial default, *System Management*, 12-26
 - use with SUMMARYTIME command, *System Management*, 12-26
- Error log backup file, *Error Logging*, 2-3
- Error log buffer
 - address of, *Crash Dump Analyzer*, 3-14
- Error log command packet, *Error Logging*, 1-2
- Error log control code
 - event-level dispatching, *Error Logging*, 4-15
- Error log file, *Error Logging*, 1-1, 2-1, 2-3, 2-10, 5-1; *MCR*, 3-200
 - appending, *Error Logging*, 2-11
 - new data, *Error Logging*, 2-5
 - backup, *Error Logging*, 2-1, 2-12
 - copying, *Error Logging*, 2-11
 - creating new version, *Error Logging*, 2-5, 2-11
 - default, *Error Logging*, 2-3
 - definition, *Error Logging*, 4-2
 - format, *Error Logging*, 5-1
 - processing, *Error Logging*, 5-1
- Error Logger, *Executive*, 5-231
 - RCT and the, *System Management*, 13-6
- Error Logger (cont'd.)
 - use in detecting faults, *System Management*, 11-4
- Error Logger task
 - See ERRLOG
- Error logging
 - code and subcode combinations, *Error Logging*, 4-15
 - concurrent I/O activity, *Error Logging*, 4-23, 4-25
 - context information, *Error Logging*, C-1
 - control events, *Error Logging*, 4-4
 - CPU errors, *Error Logging*, 2-6
 - device errors, *Error Logging*, 1-1, 2-6, C-1
 - displaying information, *Error Logging*, 2-12
 - error limits, *Error Logging*, 1-4, 2-1, 2-5, 2-8
 - error processing module, *Error Logging*, 4-6
 - error types, *Error Logging*, 1-5
 - event information, *Error Logging*, 2-1
 - events, *Error Logging*, 1-1, 2-6, 5-2
 - Executive support, *Error Logging*, 1-1, 2-1
 - hard errors, *Error Logging*, 1-3, 2-9
 - I/O completion, *Error Logging*, 4-24
 - internal I/O operations, *Error Logging*, 1-1, 2-6
 - interrupt timeouts, *Error Logging*, 1-6
 - memory errors, *Error Logging*, 1-6, 2-6
 - non-DIGITAL device, *Error Logging*, 4-7, 4-21, 4-27
 - nonerror events, *Error Logging*, C-1
 - nonsense interrupt, *Error Logging*, 4-23
 - resetting counts, *Error Logging*, 2-9
 - root module, *Error Logging*, 4-4
 - soft errors, *Error Logging*, 1-3, 2-10
 - starting, *Error Logging*, 2-5
 - status information, *Error Logging*, 2-1
 - stopping, *Error Logging*, 2-5, 2-7
 - tasks, *Error Logging*, 1-1
 - unexpected traps or interrupts, *Error Logging*, 1-6, 2-6
 - updating, *Error Logging*, 2-6
 - user-written module
 - See User-written module
- Error logging device
 - See also Control file module
 - subpacket information, *Error Logging*, 4-62
 - table of, *Error Logging*, 2-7 to 2-8
- Error logging system, *System Management*, 1-15

- Error logging task
 - subpacket information, *Error Logging*, 4-62
- Error Log Interface
 - See ELI
- Error log packet, *Error Logging*, 1-1, 1-3, 1-4, 5-1
 - creating, *Error Logging*, 4-24, 4-25
 - definition, *Error Logging*, 4-2
 - format, *Error Logging*, 5-1, C-1
 - length word, *Error Logging*, 4-2
 - processing, *Error Logging*, 5-1
 - queuing, *Error Logging*, 4-24, 4-26
 - removing from queue, *Error Logging*, 4-27
 - selection, *Error Logging*, 2-6
 - structure, *Error Logging*, 4-3, 4-15, 5-2
- Error log packet dump, *Crash Dump Analyzer*, 3-1, 3-14
- Error log report generator, *MCR*, 3-200
- Error log subpacket, *Error Logging*, 5-2
- ERRORM control file module, *Error Logging*, 4-6, 4-11, A-6
- Error message format, *System Management*, 5-82
- Error messages, *Crash Dump Analyzer*, A-1; *Indirect*, A-1 to A-5; *Introduction*, 1-1
 - CFL, *Error Logging*, 5-44 to 5-55
 - DCL, *DCL*, 10-1 to 10-16
 - ELI, *Error Logging*, 2-15 to 2-16
 - ERRLOG, *Error Logging*, 2-16 to 2-18
 - FORTTRAN IV, *Program Development*, 7-4
 - IOX, *System Management*, 12-71
 - LINK, *Program Development*, 4-2
 - MACRO-11, *Program Development*, 3-1, 3-5
 - ODT, *Program Development*, 5-3
 - RMD, *System Management*, 7-25
 - RPT
 - ERLCNF, *Error Logging*, 3-27 to 3-33
 - ERLRPT, *Error Logging*, 3-33 to 3-49
 - system messages for IAS/RSX, *MACRO-11*, 7-16
 - system messages under RT-11, *MACRO-11*, 8-8
 - TKB, *Program Development*, 4-2; *Task Builder*, H-1 to H-12
 - TKTN, *Program Development*, 4-8
 - VMR, *System Management*, 5-82 to 5-105
 - diagnostic, *System Management*, 5-82
 - fatal, *System Management*, 5-82
 - format, *System Management*, 5-82
 - unmarked, *System Management*, 5-82
- Error processing, *Indirect*, 2-12, 2-74
- Error report
 - IOX, *System Management*, 12-13
 - data compare, *System Management*, 12-13
 - directing to device, *System Management*, 12-34
 - disabling, *System Management*, 12-47
 - enabling, *System Management*, 12-47
 - I/O error, *System Management*, 12-13
 - types, *System Management*, 12-47
- Error return, *Executive*, 1-3
 - ACP, *I/O Operations*, H-3
 - CRDRV, *I/O Drivers*, 9-3, 9-6
 - EIE.LCK, *I/O Operations*, 2-45
 - GCMLD\$ macro, *I/O Operations*, 6-6
 - IE.IFC, *I/O Operations*, 2-46
 - IE.LCK, *I/O Operations*, 2-46
 - IE.ULK, *I/O Operations*, 2-46
 - IE.WAC, *I/O Operations*, 2-45
 - LPDRV, *I/O Drivers*, 7-4
 - receiver (LRDRV), *I/O Drivers*, 11-11 to 11-12
 - tape driver, *I/O Drivers*, 6-10
 - transmitter (LRDRV), *I/O Drivers*, 11-7
 - UNIBUS switch driver, *I/O Drivers*, 14-7
 - XEDRV, *I/O Drivers*, 10-5
 - IO.XCL function, *I/O Drivers*, 10-20
 - IO.XIN function, *I/O Drivers*, 10-20
 - IO.XRC function, *I/O Drivers*, 10-18
 - IO.XTL function, *I/O Drivers*, 10-22
 - IO.XTM function, *I/O Drivers*, 10-15
- Error routine
 - file macro, *I/O Operations*, 3-2
- ERRORS.ACC, *Error Logging*, 2-6, 2-13
- ERRORS.LOG, *Error Logging*, 2-6, 2-12
- ERRORS.LST, *Error Logging*, 2-13
- /ERRORS qualifier
 - BRU utility, *Utilities*, 3-16
- ERROR summary report
 - processing, *Error Logging*, 4-6, 4-10
 - RPT, *Error Logging*, 3-21
- Error type, *Error Logging*, 1-5
 - determining with user-written module, *Error Logging*, 4-32
- Err parameter
 - ASTX\$ macro, *I/O Drivers*, 1-24
 - DIR\$ macro, *I/O Drivers*, 1-16
- ERRSEQ error sequence number, *Error Logging*, 1-3
- <ERRSEV> symbol, *Indirect*, 2-12
- ERS11 device-level module, *Error Logging*, 2-8, 4-8, A-6

ERS34 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 <ERSEEN> symbol, *Indirect*, 2-10
 /ER switch
 RMSIFL utility, *RMS-11 Utilities*, 3-5 to
 3-6
 ERX01 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ERX02 device-level module, *Error Logging*,
 A-6
 <ESCAPE> symbol, *Indirect*, 2-10
 ESCAPE key, *MCR*, 2-15; *DCL*, 3-13
 EDI editor, *Program Development*, 2-12;
 Utilities, 7-23
 requesting list of options
 ACNT, *System Management*, 2-4
 TTDRV, *I/O Drivers*, 2-72
 using to terminate command, *MCR*, 1-3
 Escape mode, *Indirect*, 2-54
 Escape sequence
 TTDRV, *I/O Drivers*, 2-14, 2-73 to 2-76
 characteristic, *I/O Drivers*, 2-75
 control character, *I/O Drivers*, 2-75
 error, *I/O Drivers*, 2-75
 delete character, *I/O Drivers*, 2-75
 format, *I/O Drivers*, 2-74
 full buffer, *I/O Drivers*, 2-76
 handling, *I/O Drivers*, 2-20
 interrupt, *I/O Drivers*, 2-20
 prerequisite, *I/O Drivers*, 2-74
 rubout character, *I/O Drivers*, 2-75
 syntax exception, *I/O Drivers*, 2-76
 syntax violation, *I/O Drivers*, 2-75
 Escape-sequence mode, *Indirect*, 2-55
 ESC command
 RMSDES utility, *RMS-11 Utilities*, 2-9,
 2-21
 /ESCSEQ keyword
 SET command, *MCR*, 3-166
 SET command (VMR), *System Management*,
 5-55
 /EST=yes switch, *Batch and Queue*, 3-8
 ESTATUS command, *System Management*,
 4-15
 example, *System Management*, 4-16
 exit status values
 ports, *System Management*, 4-16
 units and controllers, *System*
 Management, 4-15
 /EST keyword
 RUN command, *MCR*, 3-139, 3-143
 ET0310 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ET1645 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ETA11 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ETC11 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 Ethernet
 XEDRV
 address
 auxiliary buffer, *I/O Drivers*, 10-12
 device consideration, *I/O Drivers*, 10-2
 hardware error, *I/O Drivers*, 10-3
 message, *I/O Drivers*, 10-2
 padding, *I/O Drivers*, 10-3
 protocol
 LF\$DEF, *I/O Drivers*, 10-3
 LF\$EXC, *I/O Drivers*, 10-3
 receive, *I/O Drivers*, 10-3
 transmit, *I/O Drivers*, 10-3
 ETK50 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ETK70 device-level module, *Error Logging*,
 4-8, A-6
 ETS11 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ETSV05 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ETU58 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ETU60 device-level module, *Error Logging*,
 2-8
 ETU77 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 ETU81 device-level module, *Error Logging*,
 2-8, 4-8, A-6
 EUNKWN control file module, *Error Logging*,
 4-7, A-6
 non-DIGITAL device, *Error Logging*, 4-21
 EVEN assembler directive
 control block alignment, *RMS-11 Macro*,
 2-8
 pool alignment, *RMS-11 Macro*, 2-4
 .EVEN directive, *MACRO-11*, 5-31
 summary, *MACRO-11*, 5-2
 Event, *Error Logging*, 1-1
 definition, *Error Logging*, 1-3, 4-2
 significant, *I/O Drivers*, 1-36
 Event flag, *Executive*, 2-2; *I/O Drivers*, 1-9;
 MCR, 3-49
 ast, *I/O Drivers*, 1-11

Event flag (cont'd.)

- clearing polarity, *Executive*, 5-35
 - common, *Executive*, 2-2; *I/O Drivers*, 1-9, 1-10
 - creating, *MCR*, 3-65
 - displaying, *DCL*, 7-77
 - eliminating, *MCR*, 3-65
 - group global, *Executive*, 2-2; *I/O Drivers*, 1-9; *MCR*, 3-65
 - creating, *Executive*, 2-4, 5-51
 - decrementing use count, *Executive*, 5-290
 - deleting, *Executive*, 2-4, 5-76
 - displaying, *Executive*, 2-4
 - eliminating, *Executive*, 5-290
 - I/O coordination, *I/O Operations*, 2-40
 - I/O synchronization, *I/O Operations*, 3-10
 - IOX, *System Management*, 12-61
 - local, *MCR*, 3-65
 - none, *I/O Drivers*, 1-8
 - number, *I/O Drivers*, 1-9
 - reading, *Executive*, 5-181, 5-184
 - setting, *Executive*, 5-228; *DCL*, 7-75 to 7-76
 - task, *I/O Drivers*, 1-9
 - testing, *Executive*, 2-3, 5-183
 - UIC, *MCR*, 3-65
 - wait after I/O, *I/O Drivers*, 1-16
 - wait for single, *I/O Drivers*, 1-24
- ## Event information
- error logging, *Error Logging*, 2-1
- ## Event-level dispatching, *Error Logging*, 4-5, 4-15 to 4-17
- control information code, *Error Logging*, 4-16
 - CPU-detected error code, *Error Logging*, 4-16
 - device control information, *Error Logging*, 4-15
 - device error code, *Error Logging*, 4-15
 - device information code, *Error Logging*, 4-15
 - error log control code, *Error Logging*, 4-15
 - event code, *Error Logging*, 4-17
 - event type, *Error Logging*, 4-17
 - format, *Error Logging*, 4-17
 - modules, *Error Logging*, 4-17
 - system control information code, *Error Logging*, 4-16
- ## EVNDF\$, *Crash Dump Analyzer*, C-25
- ## EXACT_POSITIONING
- RMSDES utility, *RMS-11 Utilities*, 2-47

EXAMINE option

ACNT, *System Management*, 2-8

Example

- RMSBCK utility, *RMS-11 Utilities*, 6-10
- RMSCNV utility, *RMS-11 Utilities*, 4-16
- RMSDES utility, *RMS-11 Utilities*, 2-47
- RMSIFL utility, *RMS-11 Utilities*, 3-14
- RMSRST utility, *RMS-11 Utilities*, 7-12

Examples, *Indirect*, 1-7, 2-104 to 2-110

Exception code

RMSIFL utility, *RMS-11 Utilities*, 3-5 to 3-6, 3-10

Exclamation point (!)

use as comment delimiter, *MCR*, 1-3

Exclamation point (!)

logical inclusive OR operator, *MACRO-11*, 2-4

ODL operator, *Task Builder*, 3-26, 3-29

special character in *MACRO-11*,
MACRO-11, 2-2

special meaning within .IF DF/NDF
conditional, *MACRO-11*, 5-45

/EXCLUDE qualifier

BRU utility, *Utilities*, 3-16

/EXECUTABLE qualifier, *Task Builder*, 11-30

EXECUTE command

IOX, *System Management*, 12-27

Command mode, *System Management*,
12-27

examples, *System Management*, 12-28

initiating tasks in parallel, *System*
Management, 12-27

Interactive mode, *System Management*,
12-27

leading spaces, *System Management*,
12-27

relationship to SPWN\$ directive, *System*
Management, 12-27

restrictions, *System Management*, 12-27

running BAD utility, *System*
Management, 12-27

spawning tasks, *System Management*,
12-27

Execution mode

IOX

description, *System Management*, 12-9

entering, *System Management*, 12-55

Executive, *Writing I/O Driver*, 1-2;

Introduction, 5-1, 6-3, 6-6

aborting task, *MCR*, 3-2

calling the driver, *Writing I/O Driver*, 1-19

Executive (cont'd.)

- checkpointing tasks
 - definition of, MCR, 2-19
- copy of task header
 - installing below task image, MCR, 3-100; *System Management*, 5-26
- coroutine
 - \$INTSV, *Writing I/O Driver*, 1-6
- data space support
 - running VMR, *System Management*, 5-3
- definition, *System Generation*, 1-9
- DIC list, *Executive*, C-1
- directive dispatcher
 - DRDSP, *Writing I/O Driver*, 3-2
- directive status code, *Executive*, B-1
- directive summary, *Executive*, A-1
- dispatching to correct driver routine,
Writing I/O Driver, 2-1
- distributing I/O requests, *Writing I/O Driver*, 1-19
- fast-mapping, MCR, 3-96
- Full-functionality, *System Generation*, 1-10
- interrupt exit routine, *Writing I/O Driver*, 1-7
- interrupts
 - handling, *Writing I/O Driver*, 2-1
- interrupt save routine, *Writing I/O Driver*, 1-7, 1-8
- loadable device driver, MCR, 3-103;
System Management, 5-29
- macro library
 - EXEMC.MLB, *Writing I/O Driver*, 5-4
- mapping, *Writing I/O Driver*, 1-3
- modifying data in UCB, *Writing I/O Driver*, 2-3
- module
 - DVINT, *Writing I/O Driver*, 1-13
- options for driver, *Writing I/O Driver*, 5-10
- partition
 - extended, MCR, 3-104, 3-212; *System Management*, 8-16
- performing processor specific functions,
Writing I/O Driver, 1-18
- predriver initiation, *Writing I/O Driver*, 1-4
- priority range, MCR, 3-185
- queuing to the driver, *Writing I/O Driver*, 1-5
- request queue for controller, *Writing I/O Driver*, 1-12
- round-robin scheduling, MCR, 3-182
- routines
 - handling, *Writing I/O Driver*, 1-5, 1-7

Executive (cont'd.)

- running a task, MCR, 1-4
- service routine, *Writing I/O Driver*, 1-2, 1-3
- stack and register dump, *Writing I/O Driver*, 6-11
- swapping interval, MCR, 3-185
- symbol
 - \$CTLST, *Writing I/O Driver*, 2-16
- tables
 - logical device, MCR, 2-12
 - physical device, MCR, 2-12
- task
 - allocating space, MCR, 2-19
 - loading, MCR, 3-94; *System Management*, 5-20
 - priority, MCR, 2-19
 - running, MCR, 2-21, 3-94; *System Management*, 5-20
 - User-tailored, *System Generation*, 1-13
 - vectored, *Writing I/O Driver*, 1-20
- Executive data space
 - SYSGEN question, *System Generation*, 3-24
- Executive Debugging Tool
 - See XDT
- Executive directive
 - ALTP\$
 - support needed for ALTER command, MCR, 3-12
 - support required for ABORT command, MCR, 3-2
 - ALUN\$
 - ASSIGN command, MCR, 3-14
 - assigning LUN at run time, MCR, 2-9
 - CLOG\$
 - ASSIGN command, MCR, 3-15
 - CLON\$
 - ASSIGN command, MCR, 3-15
 - DLOG\$
 - ASSIGN command, MCR, 3-15
 - DLON\$
 - ASSIGN command, MCR, 3-15
 - EXTK\$
 - SET /MAXEXT command, MCR, 3-172
 - GSSW\$
 - SWITCH REGISTER command, MCR, 3-201
 - QIOS\$
 - BYE command, MCR, 3-36
 - SET /MAXPKT command, MCR, 3-172
 - soliciting input, MCR, 2-14

Executive directive (cont'd.)

RCTS\$
 UNS command, MCR, 2-213
RQST\$
 effect on default TI, MCR, 2-10
 running an installed task, MCR, 2-21
RUN\$
 CANCEL command, MCR, 3-38
 CLOCK QUEUE command, MCR, 3-46
 effect on task protection UIC, MCR, 3-99
 running an installed task, MCR, 2-21
 task activation, MCR, 2-10
SCLI\$
 COMMAND LINE INTERPRETER
 command, MCR, 3-44
SPWN\$
 effect on default TI, MCR, 2-10
 running an installed task, MCR, 2-21
SREA\$
 BYE command, MCR, 3-36
 effect on blocked task, MCR, 3-29
SREX\$, MCR, 3-2
 effect on blocked task
 BYE command, MCR, 3-36
STOP\$
 UNS command, MCR, 2-213
SVBD\$
 DEBUG command, MCR, 3-49
Executive-level dispatching, *Executive*, 5-7
Executive library
 macro, *Program Development*, 1-11
Executive pool monitor code, *System Management*, 8-2
Executive routine, *Error Logging*, 1-1, 1-3, 1-5, 1-6 ; *Writing I/O Driver*, 1-12, 1-17, 4-38
See also Executive services
\$BMSET, *Error Logging*, 4-21
CALDEV, *Error Logging*, 4-26
\$CRPKT, *Error Logging*, 4-25
\$DTOER, *Error Logging*, 4-22
\$DVCER, *Error Logging*, 4-22
\$DVTMO, *Error Logging*, 4-22
\$FNERL, *Error Logging*, 4-24
\$GTPKT, *Writing I/O Driver*, 1-5, 1-14
\$IODON, *Writing I/O Driver*, 1-14
\$LOGGER, *Error Logging*, 4-24
LOGTST, *Error Logging*, 4-25
\$NSIER, *Error Logging*, 4-23
\$QERMV, *Error Logging*, 4-27
\$QUPKT, *Error Logging*, 4-26

Executive services

 summaries of technically used, *Writing I/O Driver*, 7-34
Executive symbol table, *Crash Dump Analyzer*, 2-2, 2-14
EXEMC.MLB, *Program Development*, 1-10
EXEMC.MLB macro library, *Error Logging*, 4-15
EXIF\$ directive, *Executive*, 5-85
/EXIT, *Crash Dump Analyzer*, 2-8
EXIT\$S directive, *Executive*, 5-87; *Program Development*, 2-6
Exit & Delete command
 EDI editor, *Utilities*, 7-24
EXIT command
 EDT editor, *Introduction*, 2-10
 IOX, *System Management*, 12-29
 RMSDES, *RMS-11 Utilities*, 2-9, 2-18, 2-27
 RMSDES utility, *RMS-11 Utilities*, 2-3
Exit command, *Debugging*, 2-10; *XTD*, 2-14
 EDI editor, *Program Development*, 2-9, 2-11, 2-17, 7-4, 7-7; *Utilities*, 7-23
.EXIT directive, *Indirect*, 2-60
Exit If directive, *Executive*, 5-85
EXIT option
 ACNT, *System Management*, 2-13
Exit status, *Indirect*, 2-12
 value, *Indirect*, 2-12
Exit status code, *Batch and Queue*, 3-3
Exit status value
 ports, *System Management*, 4-15, 4-16
 units and controllers, *System Management*, 4-15
Exit switch
 See /EXIT
Exit with Status directive, *Executive*, 5-89
/EXP keyword
 LOAD command, MCR, 3-104; *System Management*, 8-16
 UNLOAD command, MCR, 3-212
.EXPLG module
 logical name expansion, *I/O Operations*, 4-15
Expression, *Debugging*, 2-3
 address, *Debugging*, 2-2
 CFL, *Error Logging*, 5-9 to 5-15
 component of a term, *MACRO-11*, 2-14
 definition, *MACRO-11*, 2-14
 evaluating, *Debugging*, 2-3, 7-2
 evaluation rules, *MACRO-11*, 2-14
 format, *Debugging*, 2-3
 illegal, *Debugging*, 2-7

- Expression (cont'd.)
 - invalid, *XDT*, 2-12
 - list, *Error Logging*, 5-38 to 5-39
 - declaring, *Error Logging*, 5-39
 - operator, *Error Logging*, 5-9 to 5-16
 - precedence, *Error Logging*, 5-15
 - Radix-50
 - evaluating, *Debugging*, 7-4
 - register address, *Debugging*, 2-5; *XDT*, 2-11
 - types of, *Error Logging*, 5-9; *MACRO-11*, 2-14, 2-15
 - value of global at assembly, *MACRO-11*, 2-15
 - EXST\$ directive, *Executive*, 5-89
 - <EXSTAT> symbol, *Indirect*, 2-12; *System Management*, 4-16
 - <EXSTRI> symbol, *Indirect*, 2-23
 - /EX switch
 - LBR utility, *Utilities*, 10-19
 - PIP utility, *Utilities*, 12-15
 - EXTEND_SIZE parameter
 - SET ACCOUNTING command, *System Management*, 10-9
 - START/ACCOUNTING command, *System Management*, 10-5
 - Extend access, *MCR*, 2-3
 - common region, *MCR*, 3-98; *System Management*, 5-24
 - file
 - initializing volumes with, *MCR*, 3-88
 - specifying default, *MCR*, 3-80
 - specifying default for mounted volume, *MCR*, 3-113
 - specifying personal default, *MCR*, 3-164
 - UFD
 - establishing, *MCR*, 3-209
 - volume
 - initializing volumes with, *MCR*, 3-91
 - specifying default, *MCR*, 3-82
 - specifying default for mounted volume, *MCR*, 3-115
 - Extend control parameter
 - F11ACP, *I/O Operations*, H-9
 - Extended arithmetic element
 - specifying, *Task Builder*, 10-17, 11-16
 - Extended attribute block
 - See XAB
 - Extended I/O (TTDRV), *I/O Drivers*, 2-21, 2-27
 - Extended User Control Block
 - See UCB
 - \$EXTEND macro, *RMS-11 Macro*, 5-46
 - EXTEND operation, *RMS-11 Macro*, 3-9, 5-47; *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
 - and shared access, *RMS-11 User's Guide*, 2-6
 - BDB requirement, *RMS-11 Macro*, 2-8
 - \$EXTEND macro, *RMS-11 Macro*, 5-46
 - I/O buffer requirement, *RMS-11 Macro*, 2-7
 - /EXTEND qualifier
 - BRU utility, *Utilities*, 3-16
 - Extend Task directive, *Executive*, 5-91
 - SET /MAXEXT command, *MCR*, 3-172
 - EXTENSION
 - RMSDES utility
 - area section, *RMS-11 Utilities*, 2-45
 - file section, *RMS-11 Utilities*, 2-32
 - Extension default, *I/O Operations*, 2-19
 - /EXTENSION qualifier
 - INITIALIZE command, *System Management*, 1-8
 - MOUNT command, *System Management*, 1-8
 - Extent
 - data caching, *MCR*, 3-111, 3-160
 - Extent size
 - data caching
 - specifying, *MCR*, 3-112
 - External expression
 - definition, *MACRO-11*, 2-15
 - External header, *Writing I/O Driver*, 6-7
 - /EXTERNAL qualifier, *Task Builder*, 11-31
 - EXTK\$ directive, *Executive*, 5-91
 - SET /MAXEXT command, *MCR*, 3-172
 - /EXT keyword
 - HOME command, *MCR*, 3-80
 - INI command, *System Management*, 1-8
 - INITVOLUME command, *MCR*, 3-87
 - MOUNT command, *MCR*, 3-112; *System Management*, 1-8
 - .EXTND routine
 - extending file, *I/O Operations*, 4-24
 - EXTSCT option, *Task Builder*, 12-14
 - \$EXTSK (Extend task), *System Library*, 8-18
 - EXTTSK option, *Task Builder*, 12-15
- ## F
-
- F.ACTL field
 - number of retrieval pointers, *I/O Operations*, A-8

- F.ALOC field
 - number of blocks allocated for extend, *I/O Operations*, A-6
- F.BBFS field
 - block buffer size, *I/O Operations*, A-7
- F.BDB field
 - block buffer descriptor block address, *I/O Operations*, A-7
- F.BGBC field
 - big-buffer block count, *I/O Operations*, A-7
- F.BKDN field
 - AST service routine address, *I/O Operations*, A-6
- F.BKDS field
 - block I/O buffer descriptor, *I/O Operations*, A-5
- F.BKEF field
 - block I/O event flag, *I/O Operations*, A-7
- F.BKP1 field
 - FCS internal control bits, *I/O Operations*, A-7
- F.BKST field
 - I/O status block address, *I/O Operations*, A-6
- F.BKVB field
 - user virtual block number, *I/O Operations*, A-7
- F.CHR field
 - volume characteristics byte, *I/O Operations*, A-8
- F.CNTG field
 - number of blocks to be allocated, *I/O Operations*, A-6
- F.DFNB field
 - default filename block pointer, *I/O Operations*, A-7
- F.DSPT field
 - data-set descriptor pointer, *I/O Operations*, A-7
- F.EFBK field
 - end-of-file block number, *I/O Operations*, A-5
- F.EFN field
 - record I/O event flag, *I/O Operations*, A-7
- F.EOBB field
 - end-of-block buffer, *I/O Operations*, A-6
- F.ERR+1 field
 - F.ERR extension, *I/O Operations*, A-7
- F.ERR field
 - error return code byte, *I/O Operations*, A-7
- F.EXT field
 - FDB extension address, *I/O Operations*, A-8
- F.FACC field
 - file access byte, *I/O Operations*, A-6
- F.FFBY field
 - first free byte in last block, *I/O Operations*, A-5
- F.FLG field
 - flag byte, *I/O Operations*, A-8
- F.FNB field
 - filename block offset, *I/O Operations*, A-8
- F.HIBK field
 - highest allocated virtual block number, *I/O Operations*, A-4
- F.LUN field
 - FDB, *I/O Operations*, 4-16
 - LUN for FDB, *I/O Operations*, A-6
- F.MBC1 field
 - number of buffers in use, *I/O Operations*, A-7
- F.MBCT field
 - number of multiple buffers, *I/O Operations*, A-7
- F.MBFG field
 - multibuffer flag word, *I/O Operations*, A-7
- F.NRBD field
 - next record buffer descriptor, *I/O Operations*, A-5
- F.NREC field
 - address of next record in block, *I/O Operations*, A-6
- F.OVBS field
 - override block buffer size, *I/O Operations*, A-6
- F.RACC field
 - record access byte, *I/O Operations*, A-5
- F.RATT field
 - record attribute byte, *I/O Operations*, A-4
- F.RCNM field
 - random access record number, *I/O Operations*, A-6
- F.RCTL field
 - device characteristics byte, *I/O Operations*, A-5
 - PARSE routine, *I/O Operations*, 4-12
- F.RSIZ field
 - record-size word, *I/O Operations*, A-4
- F.RTYP field
 - record-type byte, *I/O Operations*, A-4

- F.SEQN field
 - sequence number, *I/O Operations*, A-8
- F.STBK field
 - statistics block address, *I/O Operations*, A-6
- F.URBD field
 - user record buffer descriptor, *I/O Operations*, A-5
- F.VBN field
 - virtual block number, *I/O Operations*, A-7
- F.VBSZ field
 - device buffer size word, *I/O Operations*, A-7
 - .PARSE routine, *I/O Operations*, 4-12
- F1.xxx bit, *I/O Drivers*, 2-36
- F11ACP, *RMS-11 User's Guide*, 8-13
 - See also Files-11 ACP
 - SYSGEN question, *System Generation*, 3-29
- F11ACP stall I/O performance
 - disk driver, *I/O Drivers*, 4-12
- F11DF\$, *Crash Dump Analyzer*, C-28
- F2.xxx bit, *I/O Drivers*, 2-36
- F4PRES library
 - building, *Task Builder*, 5-64
- F\$-family macro, *RMS-11 Macro*, 2-10
 - declaring, *RMS-11 Macro*, C-1
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11, 7-15
- FA.DLK value
 - not lock file, *I/O Operations*, 2-16
- FA.EXL value
 - block locking, *I/O Operations*, 2-16
- FA.LKL value
 - block locking, *I/O Operations*, 2-16
- FA.NSP value
 - opening file no superseding, *I/O Operations*, 3-17
- FA.POS value
 - file position on close, *I/O Operations*, 2-15
- FA.RWD value
 - rewinding on close or open, *I/O Operations*, 2-15
- FA.SHR value
 - opening file shared access, *I/O Operations*, 3-17
- FA.TMP value
 - opening temporary file, *I/O Operations*, 3-17
- FAB, *RMS-11 Intro*, 4-8
 - chaining to RAB, *RMS-11 Macro*, 2-14
 - declaring, *RMS-11 Macro*, 2-8
 - initializing, *RMS-11 Macro*, 2-10
- FAB (cont'd.)
 - summary, *RMS-11 Macro*, 6-22
- FAB\$B macro, *RMS-11 Macro*, 2-8, C-1
 - example, *RMS-11 Macro*, 7-3, 7-8, 7-11, 7-15
- FAB\$BT macro, *RMS-11 Macro*, C-1
- FAB\$E macro, *RMS-11 Macro*, 2-10
 - declaring, *RMS-11 Macro*, C-1
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11, 7-15
- FABOF\$ macro, *RMS-11 Macro*, C-1
- Facilities-declaration macro, *RMS-11 Macro*, 2-2
 - declaring, *RMS-11 Macro*, C-2
- Failure
 - controller, *System Management*, 11-4
 - device unit, *System Management*, 11-4
 - intermittent, *System Management*, 11-2
 - example, *System Management*, 11-2
 - re-creating conditions, *System Management*, 11-2
 - media
 - definition, *System Management*, 11-2
 - detecting, *System Management*, 11-2
 - memory, *System Management*, 11-5
 - MK11 memory box, *System Management*, 11-5
 - processor, *System Management*, 11-5
 - recovery from, *System Management*, 11-5
 - symptoms, *System Management*, 11-5
 - transient, *System Management*, 11-2
- Fairness count, *System Management*, 10-8
- FAL, *RMS-11 User's Guide*, B-1
 - RSTS/E, *RMS-11 User's Guide*, B-1, B-2, B-3
 - RSX-11M/M-PLUS, *RMS-11 User's Guide*, B-3
 - VAX/VMS, *RMS-11 User's Guide*, B-3
- <FALSE> symbol, *Indirect*, 2-10
- Fast-mapping facility, *Executive*, 3-19; *System Generation*, 3-26; *Task Builder*, 4-19
 - high-level language, *Executive*, 3-22
 - installing task for use with, *System Management*, 5-22
 - MACRO-11, *Executive*, 3-21
 - specifying for memory-resident overlay, *Task Builder*, 10-20, 11-19
 - specifying for task, *Task Builder*, 10-19, 11-17
 - status returns, *Executive*, 3-23
- /FAST qualifier, *Task Builder*, 11-32

- /FAST qualifier (cont'd.)
 - LINK command, *Program Development*, 4-4
- Fast Task Builder
 - See FTB
- /FA switch
 - FLX utility, *Utilities*, 8-6
- Fatal error message, *System Management*, 5-82
- Fault
 - codes, *Writing I/O Driver*, 6-11
 - correction, *System Management*, 11-3
 - detecting
 - Error Logger, *System Management*, 11-3
 - IOX, *System Management*, 11-3
 - hardware
 - categories, *System Management*, 11-1
 - definition, *System Management*, 11-1
 - intermittent, *System Management*, 11-2
 - media, *System Management*, 11-2
 - transient, *System Management*, 11-2
 - isolating, *System Management*, 11-3
 - system
 - definition, *System Management*, 11-1
 - recovery from, *System Management*, 11-4
 - tracing, *Writing I/O Driver*, 6-12, 6-13
- Fault isolation, *Writing I/O Driver*, 6-5, 6-7
- FB\$-family symbol
 - declaring, *RMS-11 Macro*, C-1
- \$FBCAL macro, *RMS-11 Macro*, C-2
- /FB switch
 - FLX utility, *Utilities*, 8-6
- FCB, MCR, 3-81, 3-89, 3-114, 3-125; *Writing I/O Driver*, 2-15
- F command, *Debugging*, 2-7, 6-4
- FCPLRG
 - See also F11ACP
- FCPMDL
 - See F11ACP
- FCS, *I/O Operations*, 1-1
 - data structure
 - general, *I/O Operations*, 1-5
 - default extension block count, *System Management*, 1-8
 - definition, *System Generation*, 1-9
 - file access method, *I/O Operations*, 1-6
 - I/O macro, *I/O Operations*, 2-1
 - important characteristic, *I/O Operations*, 1-4
 - library options, *I/O Operations*, L-1
 - library symbols, *I/O Operations*, I-1
 - macro
 - FDB information, *I/O Operations*, 2-2
- FCS
 - macro (cont'd.)
 - .MCALL directive, *I/O Operations*, 2-2
 - processing string, *Executive*, 5-157
 - resident library
 - types, *Task Builder*, 5-62
 - term definitions, *I/O Operations*, 1-2
 - with Task Builder, *I/O Operations*, 1-1
 - FCS.OBJ FCS library, *I/O Operations*, L-1
 - FCS-11
 - sequential file compatibility, *RMS-11 User's Guide*, 3-2
 - FCSFSL library, *Task Builder*, 5-63
 - definition, *System Generation*, 1-9
 - pregenerated kit, *System Generation*, 5-43
 - tasks supplied, *System Generation*, 4-7
 - FCS impure area, *I/O Operations*, 2-35
 - FCS library
 - FCSFSL, *System Generation*, 3-76
 - FCSRES, *System Generation*, 3-76
 - pregenerated kit, *System Generation*, 5-43
 - FCSMBF.OBJ FCS library, *I/O Operations*, L-1
 - FCSMTA.OBJ FCS library, *I/O Operations*, L-1
 - FCSRES library, *Task Builder*, 5-63
 - building
 - memory-resident, *Task Builder*, 5-63
 - non-memory-resident, *Task Builder*, 5-63
 - definition, *System Generation*, 1-10
 - pregenerated kit, *System Generation*, 5-43
 - SYSGEN question, *System Generation*, 3-26
 - tasks supplied, *System Generation*, 4-7
 - FCSRES routines, *I/O Operations*, 1-21
 - /FC switch
 - FLX utility, *Utilities*, 8-8
 - .FCTR directive, *Task Builder*, 3-27
 - arguments, *Task Builder*, 3-28
 - creating statement, *Task Builder*, 3-41
 - .FCTYP routine
 - assembly parameters, *I/O Operations*, L-1
- FD.BLK parameter
 - record attribute, *I/O Operations*, 2-6
 - block boundary crossing, *I/O Operations*, 3-9
- FD.CR parameter
 - record attribute, *I/O Operations*, 2-6
 - line-feed character, *I/O Operations*, 3-9
- FD.FTN parameter, *I/O Operations*, 3-9
- FD.INS parameter
 - sequential file, *I/O Operations*, 2-10

FD.INS parameter (cont'd.)
 sequential mode, *I/O Operations*, 3-6, 3-9

FD.PLC parameter
 locate mode, *I/O Operations*, 2-10, 3-6
 move mode, *I/O Operations*, 2-10

FD.PRN parameter
 record attribute, *I/O Operations*, 2-6

FD.RAH parameter
 read-ahead operation, *I/O Operations*, 3-11

FD.RAH value
 read-ahead, *I/O Operations*, 2-19

FD.RAN parameter
 random access, *I/O Operations*, 2-10, 3-9
 random record I/O, *I/O Operations*, 3-6

FD.RTN parameter
 record attribute, *I/O Operations*, 2-6

FD.RWM parameter
 block I/O operation, *I/O Operations*, 3-6
 record access, *I/O Operations*, 2-10
 record attribute process with block I/O, *I/O Operations*, 3-9

FD.WBH parameter
 write-behind operation, *I/O Operations*, 3-11

FD.WBH value
 write behind, *I/O Operations*, 2-19

FDAT\$A macro, *I/O Operations*, 2-5

FDAT\$R macro, *I/O Operations*, 2-20

FDB, *I/O Operations*, 2-3
 address
 run-time macro, *I/O Operations*, 2-23
 allocating file block, *I/O Operations*, 2-8
 as data structure, *I/O Operations*, 1-5
 block I/O, *I/O Operations*, 2-9
 block locking, *I/O Operations*, 2-16
 block size
 resetting, *I/O Operations*, 2-18
 carriage control, *I/O Operations*, 2-7
 definition, *I/O Operations*, 1-2
 description, *I/O Operations*, 1-5
 extension
 logical name translation, *I/O Operations*, 4-14

F.LUN field, *I/O Operations*, 4-16

F.xxxx field, *I/O Operations*, A-4

file identification, *I/O Operations*, 3-10

GET\$ macro, *I/O Operations*, 3-20

initialization, *I/O Operations*, 2-3

initializing block access, *I/O Operations*, 2-20

initializing block buffer, *I/O Operations*, 2-17, 2-20

FDB (cont'd.)
 initializing block buffer size, *I/O Operations*, 2-17

initializing file attribute, *I/O Operations*, 2-5, 2-20

initializing file-open section, *I/O Operations*, 2-13, 2-20

initializing record access, *I/O Operations*, 2-9, 2-20

initial values, *I/O Operations*, 2-1

largest record size, *I/O Operations*, 2-8

LUN specification, *I/O Operations*, 3-10

macro global symbol, *I/O Operations*, 2-24

macro local symbol, *I/O Operations*, 2-25

macro run-time exceptions, *I/O Operations*, 2-21

macro run-time initialization, *I/O Operations*, 2-20

multibuffering, *I/O Operations*, 2-18

multibuffering type, *I/O Operations*, 2-18

offset
 global/local, *I/O Operations*, 2-24

OPEN\$x macro requirement, *I/O Operations*, 3-8

PUT\$ macro operation, *I/O Operations*, 3-25

record I/O, *I/O Operations*, 2-9

record size, *I/O Operations*, 3-9

sequence number field, *I/O Operations*, 2-7

space allocation, *I/O Operations*, 2-5

WRITE\$ macro, *I/O Operations*, 3-36

FDBDF\$ macro
 FDB space allocation, *I/O Operations*, 2-5

FDBF\$A macro, *I/O Operations*, 2-17
 example, *I/O Operations*, 2-20

FDBF\$R macro, *I/O Operations*, 2-20

FDBK\$A macro
 block access initialization, *I/O Operations*, 2-11
 example, *I/O Operations*, 2-13
 record access
 block I/O, *I/O Operations*, 2-11

FDBK\$R macro
 initializing block access, *I/O Operations*, 2-20

FDOP\$A macro, *I/O Operations*, 2-13
 example, *I/O Operations*, 2-16

FDOP\$R macro
 initialize file-open section, *I/O Operations*, 2-20

FDRC\$A macro, *I/O Operations*, 2-9

FDRC\$A macro (cont'd.)
 example, *I/O Operations*, 2-10
 FDRC\$R macro
 initializing record access, *I/O Operations*,
 2-20
 /FDX keyword
 SET command, *MCR*, 3-166
 SET command (VMR), *System Management*,
 5-55
 FEAT\$ directive, *Executive*, 5-93
 \$FETCH macro, *RMS-11 Macro*, 2-16
 example, *RMS-11 Macro*, 7-3, 7-8, 7-11,
 7-15
 /FF switch
 CMP utility, *Utilities*, 4-3
 /FI:n file switch
 QUE /MOD command, *Batch and Queue*,
 2-19
 /FI:n switch
 QUE /DEL command, *Batch and Queue*,
 2-10
 Field
 clearing bits in, *RMS-11 Macro*, 2-11
 comparing value, *RMS-11 Macro*, 2-16
 copying value from, *RMS-11 Macro*, 2-16
 copying value into, *RMS-11 Macro*, 2-11
 examining, *RMS-11 Macro*, 2-16
 initializing, *RMS-11 Macro*, 2-8
 mnemonic, *RMS-11 Macro*, 1-2
 setting bits in, *RMS-11 Macro*, 2-11
 setting up, *RMS-11 Macro*, 2-10
 testing bits in, *RMS-11 Macro*, 2-18
 Field-access macro
 \$COMPARE, *RMS-11 Macro*, 2-17
 declaring, *RMS-11 Macro*, C-2
 \$FETCH, *RMS-11 Macro*, 2-16
 \$OFF, *RMS-11 Macro*, 2-12
 \$STORE, *RMS-11 Macro*, 2-11
 \$TESTBITS, *RMS-11 Macro*, 2-18
 FIELD data type
 CFL, *Error Logging*, 5-7
 Field extraction suffix unary operator
 CFL expression, *Error Logging*, 5-13
 Field-initialization macro
 declaring
 ALL block, *RMS-11 Macro*, C-3
 DAT block, *RMS-11 Macro*, C-3
 FAB, *RMS-11 Macro*, C-1
 KEY block, *RMS-11 Macro*, C-3
 NAM block, *RMS-11 Macro*, C-2
 PRO block, *RMS-11 Macro*, C-3
 RAB, *RMS-11 Macro*, C-2

Field-initialization macro
 declaring (cont'd.)
 SUM block, *RMS-11 Macro*, C-3
 Field-offset symbol
 declaring
 ALL block, *RMS-11 Macro*, C-3 to C-4
 DAT block, *RMS-11 Macro*, C-3 to C-4
 FAB, *RMS-11 Macro*, C-1
 KEY block, *RMS-11 Macro*, C-3 to C-4
 NAM block, *RMS-11 Macro*, C-2
 PRO block, *RMS-11 Macro*, C-3 to C-4
 RAB, *RMS-11 Macro*, C-2
 SUM block, *RMS-11 Macro*, C-3 to C-4
 XAB, *RMS-11 Macro*, C-4
 value
 DAT block, *RMS-11 Macro*, 6-14
 FAB, *RMS-11 Macro*, 6-22
 KEY block, *RMS-11 Macro*, 6-67
 NAM block, *RMS-11 Macro*, 6-94
 PRO block, *RMS-11 Macro*, 6-108
 RAB, *RMS-11 Macro*, 6-115
 SUM block, *RMS-11 Macro*, 6-145
 <FILATR> symbol, *Indirect*, 2-23 to 2-24
 File, *RMS-11 User's Guide*, 1-2; *RMS-11 Intro*,
 1-1; *Introduction*, 2-1, 3-1
 See also Account file
 See also Indexed file organization
 See also Relative file organization
 See also Sequential file organization
 accessing, *MCR*, 2-3, 3-99; *System*
 Management, 5-25
 access method
 FCS, *I/O Operations*, 1-6
 appending, *Utilities*, 12-8; *DCL*, 4-63
 area
 See ALL block
 attributes, *RMS-11 User's Guide*, 1-2
 See also File attribute
 setting, *DCL*, 4-101
 attribute size (F11ACP), *I/O Operations*,
 H-8
 backing up, *RMS-11 User's Guide*, 1-10,
 1-12
 closing, *I/O Operations*, 3-17
 See also CLOSE operation
 current command, *I/O Operations*,
 6-12
 indirect command, *I/O Operations*,
 6-11
 temporary, *I/O Operations*, 3-12
 comparing, *Utilities*, 4-1; *DCL*, 4-65

File (cont'd.)

- contiguous, *Introduction*, 5-7
- converting, *RMS-11 User's Guide*, 1-10, 1-12
- copying, *DCL*, 4-45
 - BRU utility, *Utilities*, 3-1
 - DSC utility, *Utilities*, 6-1
 - Files-11, *Utilities*, 12-35
 - PIP utility, *Utilities*, 12-35
 - using MFT, *Utilities*, C-7
- count
 - calculating maximum, *MCR*, 3-89
- creating, *RMS-11 User's Guide*, 1-10, 1-12;
DCL, 4-14, 4-20
 - See also CREATE operation
 - FO.WRT value, *I/O Operations*, 3-16
 - temporary, *I/O Operations*, 3-12
 - temporary mark for deletion, *I/O Operations*, 3-13
- creating source, *Program Development*, 2-8, 2-9
- date
 - See DAT block
- declaring number of active, *Task Builder*, 12-7
- definition of, *MCR*, 2-1
- delete routine, *I/O Operations*, 4-26
- deleting, *I/O Operations*, 3-38; *Utilities*, 12-11; *DCL*, 4-38
 - See also ERASE operation
 - using DELETE command, *Utilities*, C-9
 - using MFT, *Utilities*, C-8, C-9
- deleting routine, *I/O Operations*, 4-26
- deleting with wildcard, *MCR*, 2-6
- design, *RMS-11 Intro*, 3-15
- designing, *RMS-11 User's Guide*, 1-10, 1-12
 - See also Indexed file organization
 - See also Relative file organization
 - See also Sequential file organization
- device
 - data format, *I/O Operations*, 1-6
- directory, *I/O Operations*, 5-2
- directory listing, *Program Development*, 3-9
- displaying, *RMS-11 User's Guide*, 1-10, 1-12
 - block number, *Utilities*, 12-19
- dumping, *Utilities*, 5-1
- editing, *Utilities*, 7-1; *DCL*, 4-20
 - recovering, *DCL*, 4-21
 - source, *Program Development*, 2-9 to 2-17

File (cont'd.)

- EDTINI.EDT, *Introduction*, 2-2
- extending, *MCR*, 3-87
- extending allocation
 - See EXTEND operation
- extending routine, *I/O Operations*, 4-24
- extending WRITE\$ macro, *I/O Operations*, 3-35
- extension
 - default, *I/O Operations*, 2-19
 - default size, *I/O Operations*, 2-9
 - size, *I/O Operations*, 2-8
 - virtual block, *I/O Operations*, 2-9
- FORTTRAN direct access
 - See FLX utility
- I/O coordination, *I/O Operations*, 2-39
- I/O status block, *I/O Operations*, 2-41
- identification in FNB (F11ACP), *I/O Operations*, H-11
- index, *I/O Operations*, 5-3
 - listing contents, *Utilities*, 14-5
 - position
 - in large volumes, *System Management*, 1-8
 - in small volumes, *System Management*, 1-8
- indexed, *RMS-11 User's Guide*, 6-1
- indirect command
 - See Indirect command file
- initializing
 - record access, *I/O Operations*, 2-20
- input
 - See Input file
- library, *Utilities*, 10-1; *DCL*, 6-4
- listing, *Program Development*, 3-6
 - FLX utility, *Utilities*, 8-7
 - LBR utility, *Utilities*, 10-22
 - PIP utility, *Utilities*, 12-18
- loading, *RMS-11 User's Guide*, 1-10, 1-12
- location, *DCL*, 4-1
- locking, *I/O Operations*, 2-15
- maintaining, *RMS-11 User's Guide*, 1-10, 1-12
- mapping pointer for file window, *System Management*, 1-9
- marking for deletion, *I/O Operations*, 3-13
- maximum per volume
 - calculating, *MCR*, 3-89
- merging, *Utilities*, 12-36
- name, *Introduction*, 3-1
 - See also File name

File

- name (cont'd.)
 - specifying, *MCR*, 2-5
- name block
 - See *NAM* block
- name block pointer, *I/O Operations*, H-11
- name in FNB (F11ACP), *I/O Operations*, H-11
- no locking on close, *I/O Operations*, 2-16
- non-RMS-11, *RMS-11 Intro*, 3-4
- object, *DCL*, 6-3, 6-8; *Introduction*, 5-6
- ODL, *Task Builder*, 3-25
 - creating, *Task Builder*, 3-39
- open
 - declaring, *Task Builder*, 12-7
- opening
 - See *OPEN* operation
 - append, *I/O Operations*, 2-14
 - by filename block, *I/O Operations*, 3-14
 - by ID, *I/O Operations*, 2-32, 3-13
 - for appending FO.APD value, *I/O Operations*, 3-17
 - for file access, *I/O Operations*, 3-16
 - for modifying, *I/O Operations*, 3-17
 - for reading, *I/O Operations*, 3-16
 - for shared access FA.SHR value, *I/O Operations*, 3-17
 - for updating and extending, *I/O Operations*, 3-17
 - for writing FO.WRT value, *I/O Operations*, 3-16
 - lock on close, *I/O Operations*, 2-15
 - modify, *I/O Operations*, 2-14
 - no supersede, *I/O Operations*, 2-14, 3-16, 3-17
 - on LP for printing, *I/O Operations*, 8-2
 - processing, *I/O Operations*, 3-4
 - read access, *I/O Operations*, 2-14
 - shared access, *I/O Operations*, 2-14
 - tape position, *I/O Operations*, 2-15
 - temporary, *I/O Operations*, 2-14, 3-12
 - temporary FA.TMP value, *I/O Operations*, 3-17
 - temporary mark for deletion, *I/O Operations*, 3-13
 - update, *I/O Operations*, 2-14
 - write access, *I/O Operations*, 2-14
- opening for reading, *Indirect*, 2-80
- operation
 - multiple, *I/O Operations*, 5-7
 - single, *I/O Operations*, 5-7

File (cont'd.)

- organization, *DCL*, 4-1
- output
 - omitting, *Task Builder*, 1-3
- overlay, *DCL*, 6-5
- owner, *DCL*, 4-1
- ownership, *MCR*, 2-2
 - PIP utility, *Utilities*, 12-37
- position
 - by byte, *I/O Operations*, 2-10
 - on closing, *I/O Operations*, 2-15
- printing, *Program Development*, 3-8; *DCL*, 4-73
- processing, *RMS-11 User's Guide*, 1-16; *RMS-11 Intro*, 4-1
- protection, *MCR*, 2-3 to 2-4, 3-164; *DCL*, 9-35; *Introduction*, 3-4, 6-4
 - changing password, *MCR*, 3-195
 - default access codes, *MCR*, 3-88
 - default for mounted volume, *MCR*, 3-115, 3-122
 - determined by task UIC, *MCR*, 3-99; *System Management*, 5-25
 - Files-11, *Utilities*, 12-22
 - specifying default, *MCR*, 3-87
 - specifying for mounted volume, *MCR*, 3-113, 3-120
- protection of, *MCR*, 2-2
- purging, *Program Development*, 3-9; *Utilities*, 12-24; *DCL*, 4-42
- random I/O, *I/O Operations*, 2-19
- recovering lost file, *Utilities*, 14-5
- relative, *RMS-11 User's Guide*, 4-2
- relative file organization, *RMS-11 Macro*, 2-3
- renaming, *I/O Operations*, 4-23; *Utilities*, 12-25; *DCL*, 4-50
 - See *RENAME* operation
- revision date
 - RMSBCK utility, *RMS-11 Utilities*, 6-8
- saving
 - BRU utility, *Utilities*, 3-1
 - DSC utility, *Utilities*, 6-1
- sequenced, *I/O Operations*, 2-6
 - reading, *I/O Operations*, 2-7
 - writing, *I/O Operations*, 2-7
- sequence number, *I/O Operations*, 2-7
- sequential, *RMS-11 User's Guide*, 3-3
- sequential file organization, *RMS-11 Macro*, 2-3
- shared access, *I/O Operations*, 1-13
- source, *DCL*, 6-2; *Introduction*, 5-6

File

- source (cont'd.)
 - editing, *DCL*, 4-24
- space preallocation, *I/O Operations*, 2-19
- specification, *RMS-11 Intro*, 4-1; *Utilities*, 1-4
 - definition, *I/O Operations*, 1-3
- specifying within program, *I/O Operations*, 2-26
- spooling, *Program Development*, 1-9, 3-8; *Utilities*, 12-30
- startup command, *Introduction*, 2-2
- symbol definition
 - See Symbol definition file
- system image, *MCR*, 3-147; *System Management*, 8-18
- system management, *System Management*, 1-10
- task image, *DCL*, 6-3, 6-8; *Introduction*, 2-1, 5-7
- testing for, *Indirect*, 2-96
- text, *Introduction*, 2-1
- transfer
 - sample session, *Utilities*, C-9
- transferring, *Utilities*, 8-1, 8-4, C-3, C-7
 - DOS-11, *Utilities*, 8-4
 - RT-11, *Utilities*, 8-4
 - using VAX-11 RSX systems, *Utilities*, C-1
 - using MFT, *Utilities*, C-7
 - using professional personal computer systems, *Utilities*, C-1
- truncating, *Utilities*, 12-32
 - See also TRUNCATE operation
- truncating routine, *I/O Operations*, 4-25
- truncation, *I/O Operations*, 2-10
- type
 - See also File type
 - specifying, *MCR*, 2-5
- type FNB (F11ACP), *I/O Operations*, H-11
- typing, *DCL*, 4-60
- universal library
 - See Universal library file
- unlocking, *DCL*, 4-71
- updating
 - PAT utility, *Utilities*, 11-1
 - PIP utility, *Utilities*, 12-34
 - SLP utility, *Utilities*, 13-1
 - ZAP utility, *Utilities*, 15-1
- validating contents, *Utilities*, 11-8
- version number, *DCL*, 4-3

File

- version number (cont'd.)
 - default, *DCL*, 4-4
- version number in FNB (F11ACP), *I/O Operations*, H-11
- wildcard search
 - See SEARCH operation
- window pointer number, *I/O Operations*, 2-16
- FILE.MAC source code, *Program Development*, 2-17 to 2-19
- /FILE_END qualifier
 - STOP/PROCESSOR command, *System Management*, 3-33
- /FILE_POSITION file qualifier
 - SET QUEUE command, *Batch and Queue*, 2-19
- /FILE_POSITION qualifier
 - DELETE command, *Batch and Queue*, 2-10
- FILEA.MAC source code, *Program Development*, 2-19 to 2-21
- File access
 - optimizing, *I/O Operations*, 2-32
 - types of
 - initializing volumes with, *MCR*, 3-88
 - specifying default, *MCR*, 3-80
 - specifying default for mounted volume, *MCR*, 3-113
 - specifying personal default, *MCR*, 3-164
- File access block
 - See FAB
- File access listener
 - See FAL
- File allocation
 - See Allocation
- File attribute, *Indirect*, 2-23
 - initializing, *I/O Operations*, 2-5
 - initializing run-time, *I/O Operations*, 2-20
 - specifying tape, *I/O Operations*, G-16
- File attribute (RMSDSP)
 - indexed file
 - detailed display, *RMS-11 Utilities*, 5-4
- FILEB.MAC source code, *Program Development*, 2-21 to 2-23
- File block
 - access initialization, *I/O Operations*, 2-11
 - access initializing run-time, *I/O Operations*, 2-20
 - allocation, *I/O Operations*, 2-8
 - buffer initialization, *I/O Operations*, 2-17
 - run time, *I/O Operations*, 2-20

- File block (cont'd.)
 - locking, *I/O Operations*, 2-16
- File characteristic
 - system-controlled characteristic
 - SC.BAD, *I/O Operations*, C-4
 - SC.MDL, *I/O Operations*, C-4
 - user-controlled
 - UC.CON
 - contiguous file, *I/O Operations*, C-4
 - UC.DLK
 - file improperly closed, *I/O Operations*, C-4
- File command
 - EDI editor, *Utilities*, 7-24
- File Compare Utility
 - See CMP utility
- File Control Block
 - See FCB
- File control directive, *MACRO-11*, 5-49
- File control processor, *RMS-11 User's Guide*, 1-16; *RMS-11 Intro*, 2-1
 - multiple, *System Management*, 1-7
 - retrieval pointers, *RMS-11 User's Guide*, 8-11
 - window turning, *RMS-11 User's Guide*, 8-12
- File control routine, *I/O Operations*, 4-1
- File Control Services
 - See FCS
- File creation (RMSDEF), *RMS-11 Utilities*, A-19
- File Descriptor Block
 - See FDB
- File Dump Utility
 - See DMP utility
- File header
 - allocating, *MCR*, 3-88
 - calculating preallocated, *MCR*, 3-88
 - contents of, *MCR*, 2-2
 - initializing, *MCR*, 3-88
 - maximum per volume, *MCR*, 3-88
- File header block, *I/O Operations*, 5-4
 - format, *I/O Operations*, C-1
 - H.XXXX field, *I/O Operations*, C-1, C-2
 - header area
 - file characteristics, *I/O Operations*, C-4
 - file owner information, *I/O Operations*, C-3
 - file protection code, *I/O Operations*, C-3
- File header block (cont'd.)
 - I.XXXX field, *I/O Operations*, C-2
 - identification area, *I/O Operations*, C-4
 - creation date, *I/O Operations*, C-5
 - creation time, *I/O Operations*, C-5
 - expiration date, *I/O Operations*, C-5
 - file name, *I/O Operations*, C-4
 - file type, *I/O Operations*, C-4
 - file version number, *I/O Operations*, C-4
 - revision date, *I/O Operations*, C-4
 - revision number, *I/O Operations*, C-4
 - revision time, *I/O Operations*, C-4
 - M.XXXX field, *I/O Operations*, C-2
 - map area, *I/O Operations*, C-5
 - tape, *I/O Operations*, G-9
- File header label
 - ANSI, *I/O Operations*, 5-5
 - tape, *I/O Operations*, G-4
 - HDR1, *I/O Operations*, G-4
 - HDR2, *I/O Operations*, G-5
 - HDR3, *I/O Operations*, G-5
- File identification, *I/O Operations*, 5-4
 - FDB, *I/O Operations*, 3-10
 - field, *I/O Operations*, 2-32
- File Identification Block
 - F11ACP, *I/O Operations*, H-7
- File identifier processing
 - by Files-11
 - tape, *I/O Operations*, G-7
- File label
 - tape, *I/O Operations*, G-1
- File macro, *I/O Operations*, 3-1
 - access privileges, *I/O Operations*, 3-4
 - error routine, *I/O Operations*, 3-2
- File name, *DCL*, 4-3
 - default, *RMS-11 User's Guide*, A-6; *Indirect*, 2-5
 - file specifications, *RMS-11 User's Guide*, A-2
 - .PARSE routine, *I/O Operations*, 4-14
 - .PRSFN routine, *I/O Operations*, 4-16
 - specifying, *MCR*, 2-5
 - tape
 - Radix-50 conversion, *I/O Operations*, 4-18
- Filename block
 - See also FNB
 - default, *I/O Operations*, 2-29, 3-15
 - initialization, *I/O Operations*, 2-14
 - default directory information
 - .GTDID routine, *I/O Operations*, 4-20

Filename block (cont'd.)

- default file-open, *I/O Operations*, 2-13
- default OFNB\$x macro, *I/O Operations*, 3-15
- deleting file, *I/O Operations*, 4-26
- directory information
 - .GTDIR routine, *I/O Operations*, 4-19
- initializing, *I/O Operations*, 2-33
 - manually, *I/O Operations*, 2-34
- local offset definition, *I/O Operations*, 2-31
- N.DID field
 - .PARSE routine, *I/O Operations*, 4-13
- N.DVNM field, *I/O Operations*, 4-16
- N.NEXT word
 - .PARSE routine, *I/O Operations*, 4-15
- N.STAT word
 - .PARSE routine, *I/O Operations*, 4-15
- NBOF\$L macro, *I/O Operations*, 2-31
- NMBLK\$ macro, *I/O Operations*, 2-29
- OPEN\$x macro, *I/O Operations*, 2-33
- opening file by, *I/O Operations*, 3-14
- .PARSE routine
 - N.DID field, *I/O Operations*, 4-13
 - N.FID field, *I/O Operations*, 4-13
 - tape, *I/O Operations*, 4-11
- routine, *I/O Operations*, 4-8, 4-19
- specifying
 - default, *I/O Operations*, 2-26
- Filename string descriptor, *I/O Operations*, 2-27
- File number, *I/O Operations*, 5-4
- File operation, *RMS-11 Macro*, 3-7; *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
 - See also Operation
- error codes, *I/O Drivers*, C-1; *I/O Operations*, K-1
- File-operation macro
 - \$CLOSE, *RMS-11 Macro*, 5-3
 - \$CREATE, *RMS-11 Macro*, 5-9
 - declaring, *RMS-11 Macro*, C-2
 - \$DISPLAY, *RMS-11 Macro*, 5-29
 - \$ERASE, *RMS-11 Macro*, 5-40
 - \$EXTEND, *RMS-11 Macro*, 5-46
 - \$OPEN, *RMS-11 Macro*, 5-72
- File organization, *RMS-11 User's Guide*, 1-11, 1-18; *RMS-11 Intro*, 3-1, 3-4
 - See also Indexed file organization
 - See also Relative file organization
 - See also Sequential file organization
 - and data storage, *RMS-11 User's Guide*, 2-5
 - and file design, *RMS-11 User's Guide*, 2-11

File organization (cont'd.)

- and optimizations, *RMS-11 User's Guide*, 8-10
- and record formats, *RMS-11 User's Guide*, 1-20, 2-15
- indexed, *RMS-11 User's Guide*, 1-5, 1-11;
RMS-11 Intro, 3-6
 - alternate keys, *RMS-11 Intro*, 3-7
 - changeable keys, *RMS-11 Intro*, 3-10
 - duplicate keys, *RMS-11 Intro*, 3-10
 - index, *RMS-11 Intro*, 3-7
 - keys, *RMS-11 Intro*, 3-6
 - null keys, *RMS-11 Intro*, 3-10
 - primary key, *RMS-11 Intro*, 3-7
 - segmented keys, *RMS-11 Intro*, 3-10
- random access
 - to indexed files, *RMS-11 Intro*, 3-15
 - to relative files, *RMS-11 Intro*, 3-15
- relative, *RMS-11 User's Guide*, 1-4, 1-11;
RMS-11 Intro, 3-5, 3-6
 - cell, *RMS-11 Intro*, 3-5
 - RRN, *RMS-11 Intro*, 3-6
- RMSDEF utility, *RMS-11 Utilities*, A-8
- selection, *RMS-11 User's Guide*, 2-11
- sequential, *RMS-11 User's Guide*, 1-3, 1-11;
RMS-11 Intro, 3-4
 - sequential access
 - to indexed files, *RMS-11 Intro*, 3-12
 - to relative files, *RMS-11 Intro*, 3-12
 - to sequential files, *RMS-11 Intro*, 3-12
- File ownership, *MCR*, 2-3
- File owner word, *I/O Operations*, 4-6
 - reading, *I/O Operations*, 4-7
 - writing, *I/O Operations*, 4-7
- FILE parameter
 - SET ACCOUNTING command, *System Management*, 10-9
 - START/ACCOUNTING command, *System Management*, 10-5
- FILE PLACEMENT
 - RMSDES utility, *RMS-11 Utilities*, 2-30
- File pointer routine, *I/O Operations*, 4-21
- File position
 - save, *I/O Operations*, 4-22
 - to byte
 - .POINT routine, *I/O Operations*, 4-21
 - to record
 - .POSRC routine, *I/O Operations*, 4-22
- File processing, *RMS-11 Macro*, 3-1
 - completion CLOSE\$ macro, *I/O Operations*, 2-8

- File protection, MCR, 2-3 to 2-4; DCL, 2-7, 4-9 to 4-12
 - See also Protection
 - access codes
 - specifying default, MCR, 3-80
 - default, DCL, 4-113
 - setting, DCL, 4-107 to 4-109, 4-110 to 4-112
 - system default
 - in account entry, *System Management*, 2-1, 2-4
- File protection word, *I/O Operations*, 4-5, 4-6
 - <FILER2> symbol, *Indirect*, 2-18
- File read-ahead FD.RAH parameter, *I/O Operations*, 3-11
- File record
 - attribute, *I/O Operations*, 2-6
- File rename routine, *I/O Operations*, 4-23
 - <FILERR> symbol, *Indirect*, 2-13 to 2-18
- Files-11, DCL, 5-4
 - volume
 - initializing, DCL, 5-67
- Files-11 ACP
 - See also F11ACP
 - mounting separate, *System Management*, 1-7
- Files-11 Ancillary Control Processor
 - See Files-11 ACP
- Files-11 file
 - copying, *Utilities*, 12-35
 - FLX utility, *Utilities*, 8-2
 - protection, *Utilities*, 12-22
 - verifying structure, *Utilities*, 14-1
- Files-11 structure, *I/O Operations*, 5-1; MCR, 2-1
 - preparing volumes for use with, MCR, 2-1
 - types of volumes supported, MCR, 2-1
- Files-11 volume
 - dismounting, MCR, 3-60
 - initializing, MCR, 2-1, 3-83
 - modifying home block, MCR, 3-79
 - mounting, MCR, 3-110
 - protecting, MCR, 3-115, 3-122
 - protecting files on, MCR, 3-113, 3-120
 - selecting for IOX exercise, *System Management*, 12-5, 12-30
 - specifying label for, MCR, 3-61
 - testing with IOX
 - example, *System Management*, 12-63
 - verifying with IOX, *System Management*, 12-6
- FILES11 command
 - IOX, *System Management*, 12-30
 - Command mode, *System Management*, 12-31
 - default parameters, *System Management*, 12-30
 - examples, *System Management*, 12-31
 - function, *System Management*, 12-5
 - Interactive mode, *System Management*, 12-31
 - logical names, *System Management*, 12-30
 - overriding default parameters, *System Management*, 12-30
- File sequence number, *I/O Operations*, 5-4
- File Set Identifier, MCR, 3-109, 3-118, 3-121, 3-124
- File sharing
 - See Shared access
- File space (RMSIFL)
 - calculating, *RMS-11 Utilities*, 3-12
- Filespec
 - See File specification
- File specification, *RMS-11 User's Guide*, 1-18 to 1-19 ; *RMS-11 Intro*, 4-1; DCL, 4-2 to 4-4; *Introduction*, 1-13 to 1-15
- See also File
- default
 - directory, *RMS-11 User's Guide*, A-6
 - name, *RMS-11 User's Guide*, A-6
 - node, *RMS-11 User's Guide*, B-2
 - type, *RMS-11 User's Guide*, A-6
 - version, *RMS-11 User's Guide*, A-6
- default for RSX-11M, *MACRO-11*, 7-3
- default name string, *RMS-11 User's Guide*, A-5 to A-6
- defaults, MCR, 2-6, 3-30; DCL, 4-4 to 4-6
- defaults for RT-11, *MACRO-11*, 8-2
- device, *I/O Operations*, 1-15
 - magnetic tape, *I/O Operations*, 1-17
 - .PRSDV routine, *I/O Operations*, 4-15
- directory, *I/O Operations*, 1-15
 - magnetic tape, *I/O Operations*, 1-17
 - .PRSDI routine, *I/O Operations*, 4-15
- dynamic processing
 - SYSLIB, *I/O Operations*, 2-32
- examples, MCR, 2-8
- file name string, *RMS-11 User's Guide*, A-5
- Files-11
 - assigning logical name, MCR, 3-15
- format, MCR, 2-5; DCL, 4-2

File specification (cont'd.)

- format in command line, *MCR*, 2-4
- fully qualified, *RMS-11 Macro*, 3-4
- generation, *I/O Operations*, 1-18
- input, *MCR*, 2-4
- logical name
 - expanding, *I/O Operations*, 4-10
 - merging, *I/O Operations*, 4-10
 - parsing, *I/O Operations*, 4-10
- magnetic tape, *RMS-11 User's Guide*, A-4, A-5; *I/O Operations*, 1-17
 - device, *RMS-11 User's Guide*, A-4
 - directory, *RMS-11 User's Guide*, A-4
 - quoted string, *RMS-11 User's Guide*, A-5
 - version, *RMS-11 User's Guide*, A-5
- merged string, *RMS-11 Macro*, 3-3
- multiple, *Batch and Queue*, 3-15
- NAM block, *RMS-11 User's Guide*, A-6
- name, *I/O Operations*, 1-16
- node, *RMS-11 User's Guide*, B-2
- output, *MCR*, 2-4
- processing, *Executive*, 5-12
- quoted string, *RMS-11 User's Guide*, B-2
 - magnetic tape, *I/O Operations*, 1-18
- remote, *RMS-11 User's Guide*, B-1, B-2
- RMSBCK utility, *RMS-11 Utilities*, 6-9
- RMSDEF utility, *RMS-11 Utilities*, A-7
- RMSRST utility, *RMS-11 Utilities*, 7-10
- scanning, *Executive*, 5-97
- standard, *RMS-11 User's Guide*, A-1
 - device, *RMS-11 User's Guide*, A-1
 - directory, *RMS-11 User's Guide*, A-1
 - name, *RMS-11 User's Guide*, A-2
 - type, *RMS-11 User's Guide*, A-3
 - version, *RMS-11 User's Guide*, A-3
- syntax description, *I/O Operations*, 1-14
- system defaults, *MCR*, 2-6
- type, *I/O Operations*, 1-16
- UIC, *MCR*, 2-2
- unit
 - .PRSDV routine, *I/O Operations*, 4-15
- version, *I/O Operations*, 1-16
 - magnetic tape, *I/O Operations*, 1-18
- VMR
 - components, *System Management*, 5-5
 - defaults, *System Management*, 5-5
 - device name, *System Management*, 5-5
 - directory, *System Management*, 5-6
 - file name, *System Management*, 5-6
 - file type, *System Management*, 5-6
 - format, *System Management*, 5-5

File specification

VMR (cont'd.)

- /IM switch, *System Management*, 5-6
- named directory, *System Management*, 5-6
- specifying, *System Management*, 5-5
- version number, *System Management*, 5-6
- wildcard, *RMS-11 Macro*, 3-9
- wildcard character, *RMS-11 User's Guide*, A-2 to A-3 ; *RMS-11 Intro*, 4-1
- File specification (IAS/R SX), *MACRO-11*, 7-16
- File specification (TKB)
 - defaults, *Task Builder*, 1-15
 - format, *Task Builder*, 1-15
- File specification parsing
 - See PARSE operation
- File Specification Scanner directive, *Executive*, 5-97
- /FILES qualifier
 - SHOW QUEUE command, *Batch and Queue*, 2-14
- FILE statement
 - CFL, *Error Logging*, 5-37
 - See also DYNAMIC_TABLE statement
- File Storage Region
 - See FSR
- File structure, *I/O Operations*, 5-1
 - See also Structure
 - tape, *I/O Operations*, G-8
 - user, *I/O Operations*, 5-2
 - virtual blocks, *I/O Operations*, 5-2
- File Structure Verification Utility
 - See VFY utility
- File system
 - options, *System Management*, 1-8
- File trailer label
 - tape, *I/O Operations*, G-8
- File Transfer Utility Program
 - See FLX utility
- File type, *RMS-11 User's Guide*, A-3; *MCR*, 2-7 ; *DCL*, 4-3; *Introduction*, 2-1
 - CMD, *DCL*, 6-6
 - conventional, *MCR*, 2-7
 - default, *Batch and Queue*, 3-15; *DCL*, 4-4, 4-5 to 4-6
 - defaults, *MCR*, 2-7
 - FTN, *Program Development*, 7-3, 7-4
 - LST, *Program Development*, 3-4, 6-11, 7-3, 7-4

File type (cont'd.)

- MAP, *Program Development*, 4-6
- MLB, *Program Development*, 6-1
- OBJ, *Program Development*, 3-4, 7-5; DCL, 6-6
- ODL, DCL, 6-5
- OLB, *Program Development*, 6-4
- .PARSE routine, *I/O Operations*, 4-14
- PMD, *Program Development*, 5-10
- .PRSFN routine, *I/O Operations*, 4-16
- specifying, MCR, 2-5
- system defaults, MCR, 2-7
- TSK, *Program Development*, 4-1

File version

- .PARSE routine, *I/O Operations*, 4-14
- .PRSFN routine, *I/O Operations*, 4-16

File version number

- specifying, MCR, 2-5

File window

- definition, MCR, 3-117
- mapping, MCR, 3-117

File window in secondary pool

- SYSGEN question, *System Generation*, 3-29

/FIL keyword

- HELP command, MCR, 3-72

Fill command

- See F command

Fill number

- RMSCNV utility, *RMS-11 Utilities*, 4-10
- RMSDEF utility, *RMS-11 Utilities*, A-16
- RMSIFL utility, *RMS-11 Utilities*, 3-6

FILL print fill character option

- CFL, *Error Logging*, 5-5

Fill size

- See Bucket fill number

- <FILSPC> symbol, *Indirect*, 2-25

/FINAL keyword

- ASSIGN command, MCR, 3-19
- DEFINE LOGICALS command, MCR, 3-55

- FIN argument to ORG\$ macro, *RMS-11 Macro*, 2-3

Find and Return Task Information function

- (GIN\$), *Executive*, 5-122

FIND command

- EDT editor, *Introduction*, 2-16

Find command

- EDI editor, *Utilities*, 7-24

FIND function

- EDT editor, *Introduction*, 2-9

\$FIND macro

- key access, *RMS-11 Macro*, 5-46
- RFA access, *RMS-11 Macro*, 5-54

\$FIND macro (cont'd.)

- sequential access, *RMS-11 Macro*, 5-49

FIND NEXT function

- EDT editor, *Introduction*, 2-9

FIND operation,

- RMS-11 Macro*, 4-10; *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4

- access modes, *RMS-11 Intro*, 4-6

- and bucket locking, *RMS-11 User's Guide*, 2-8

- and shared access, *RMS-11 User's Guide*, 2-6, 2-10

- and stream records, *RMS-11 User's Guide*, 2-16

- declaring with ORG\$ macro, *RMS-11 Macro*, 2-3

- deferred write, *RMS-11 User's Guide*, 7-9

\$FIND macro

- RFA access, *RMS-11 Macro*, 5-49

- sequential access, *RMS-11 Macro*, 5-44

- indexed files, *RMS-11 User's Guide*, 7-3

- key access, *RMS-11 User's Guide*, 7-3

- random by key, *RMS-11 User's Guide*, 5-13

- RFA access, *RMS-11 User's Guide*, 7-3

- sequential access, *RMS-11 User's Guide*, 5-17, 7-3

- key access, *RMS-11 Macro*, 5-51; *RMS-11 User's Guide*, 1-16

- relative files, *RMS-11 User's Guide*, 4-8

- key access, *RMS-11 User's Guide*, 4-8

- RFA access, *RMS-11 User's Guide*, 4-8

- sequential access, *RMS-11 User's Guide*, 4-8

- RFA access, *RMS-11 User's Guide*, 1-16

- sequential access, *RMS-11 User's Guide*, 1-16

- sequential files, *RMS-11 User's Guide*, 3-7

- key access, *RMS-11 User's Guide*, 3-7

- RFA access, *RMS-11 User's Guide*, 3-7

- sequential access, *RMS-11 User's Guide*, 3-7

.FIND routine

- locating directory entry, *I/O Operations*, 4-16

FIND statement

- CFL, *Error Logging*, 5-38

FINIT\$ macro

- FSR initialization run-time, *I/O Operations*, 2-37

- .FINIT routine
 - initializing before .PARSE routine, *I/O Operations*, 4-11
- FINLP1 control file module, *Error Logging*, 4-4, 4-6, 4-11, A-6
- /FI switch
 - DMP utility, *Utilities*, 5-5
 - PIP utility, *Utilities*, 12-16
- FIX command, *DCL*, 7-39 to 7-40, 9-17
 - See also FIX-IN-MEMORY command
 - VMR, *System Management*, 5-18
 - definition, *System Management*, 5-18
 - examples, *System Management*, 5-19
 - format, *System Management*, 5-18
 - keywords
 - /DIR, *System Management*, 5-18
 - /NSF, *System Management*, 5-19
 - /REG, *System Management*, 5-19
 - /RON, *System Management*, 5-19
 - parameter, *System Management*, 5-18
- Fixed control area
 - RMSDEF utility, *RMS-11 Utilities*, A-8
- Fixed-length record
 - PUT\$ macro block buffer, *I/O Operations*, 3-27
- Fixed-length record format, *RMS-11 User's Guide*, 1-11, 2-15; *RMS-11 Intro*, 3-2
- Fixer task
 - See FXR task
- FIX-IN-MEMORY command, *MCR*, 3-63
 - brief description, *MCR*, 1-6
 - examples, *MCR*, 3-63
 - format, *MCR*, 3-63
 - keywords
 - /REG, *MCR*, 3-63
 - /RON, *MCR*, 3-63
 - VMR
 - See FIX command
- FLA command
 - See GROUP GLOBAL EVENT FLAGS command
- Flag
 - See also Event flag
 - group global event, *MCR*, 3-65
- /FLAG_PAGE qualifier
 - INITIALIZE/PROCESSOR command, *System Management*, 3-21
 - PRINT command, *Batch and Queue*, 2-3
- Flag page, *DCL*, 4-75
- /FLAG qualifier
 - START/PROCESSOR command, *System Management*, 3-37
- /FLAGS keyword
 - LOAD command, *MCR*, 3-104
- Flagwd parameter
 - device-specific function
 - transmitting (LRDRV), *I/O Drivers*, 11-4
- Floating CSR address, *System Generation*, D-1
 - assignment algorithm, *System Generation*, D-3
 - worksheet
 - blank, *System Generation*, D-6
 - completed example, *System Generation*, D-8
 - format, *System Generation*, D-4
 - instructions, *System Generation*, D-4
- Floating-point number
 - single-word format, *MACRO-11*, 2-13
 - using ^F operator, *MACRO-11*, 2-13
- Floating-point number format, *MACRO-11*, 5-28
- Floating-Point Processor
 - op code
 - list, *MACRO-11*, C-5
 - specifying for task, *Task Builder*, 10-21, 11-18
- Floating vector, *System Generation*, D-1
- /FL option
 - QUE /STA command, *System Management*, 3-37
- /FL switch
 - PRI command, *Batch and Queue*, 2-3
 - QUE /SP command, *System Management*, 3-21
- FLT16: subroutine
 - converting unsigned integer to real constant
 - K-series, *I/O Drivers*, 13-18
 - LADRV, *I/O Drivers*, 12-15
- .FLT2 directive, *MACRO-11*, 5-29
 - summary, *MACRO-11*, 5-2
- .FLT4 directive, *MACRO-11*, 5-29
 - summary, *MACRO-11*, 5-2
- Flush buffer routine, *I/O Operations*, 4-28
- \$FLUSH macro, *RMS-11 Macro*, 5-56
- FLUSH operation, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - \$FLUSH macro, *RMS-11 Macro*, 5-56
 - indexed files, *RMS-11 User's Guide*, 7-5
 - record stream, *RMS-11 Macro*, 4-8
 - relative files, *RMS-11 User's Guide*, 4-10

- FLUSH operation (cont'd.)
 - sequential files, *RMS-11 User's Guide*, 3-9
- .FLUSH routine
 - flushing buffer, *I/O Operations*, 4-28
- FLX utility, *MCR*, 2-1
 - cassette, *Utilities*, 8-13
 - input file, *Utilities*, 8-14
 - multivolume support, *Utilities*, 8-13
 - output file, *Utilities*, 8-13
 - TA11/TU60 support, *Utilities*, 8-13
 - command line, *Utilities*, 8-3, A-15
 - control switches, *Utilities*, 8-4
 - device support, *Utilities*, 8-2
 - DOS-11 volume, *Utilities*, 8-9
 - deleting, *Utilities*, 8-10
 - directory listing, *Utilities*, 8-9
 - initializing, *Utilities*, 8-10
 - valid, *Utilities*, 8-1
 - file
 - deleting, *Utilities*, 8-7
 - Files-11, *Utilities*, 8-2
 - processing, *Utilities*, 8-7
 - specifying, *Utilities*, 8-3
 - FORTTRAN direct access file, *Utilities*, 8-16
 - messages, *Utilities*, 8-16
 - error, *Utilities*, 8-17
 - informational, *Utilities*, 8-17
 - warning, *Utilities*, 8-17
 - paper tape support, *Utilities*, 8-15
 - RT-11 volume, *Utilities*, 8-10
 - deleting, *Utilities*, 8-11
 - directory listing, *Utilities*, 8-11
 - initializing, *Utilities*, 8-12
 - valid, *Utilities*, 8-2
 - switches
 - /BL, *Utilities*, 8-7
 - /BS, *Utilities*, 8-7
 - /CO, *Utilities*, 8-7
 - /DE, *Utilities*, 8-7
 - default, *Utilities*, 8-4
 - /DI, *Utilities*, 8-7
 - /DNS, *Utilities*, 8-8
 - /DO, *Utilities*, 8-4
 - /FA, *Utilities*, 8-6
 - /FB, *Utilities*, 8-6
 - /FC, *Utilities*, 8-8
 - /ID, *Utilities*, 8-8
 - /IM, *Utilities*, 8-6
 - /LI, *Utilities*, 8-8
 - /NU, *Utilities*, 8-8
 - /RS, *Utilities*, 8-4
 - /RT, *Utilities*, 8-4
- FLX utility
 - switches (cont'd.)
 - /RW, *Utilities*, 8-8
 - /SP, *Utilities*, 8-8
 - /UI, *Utilities*, 8-8
 - /VE, *Utilities*, 8-8
 - /ZE, *Utilities*, 8-9
 - transfer mode switches, *Utilities*, 8-4
 - volume
 - directory listing, *Utilities*, 8-7
 - file deletion, *Utilities*, 8-7
 - file transfer, *Utilities*, 8-5
 - format switches, *Utilities*, 8-4
 - formatting, *Utilities*, 8-4
 - initializing, *Utilities*, 8-2
 - wildcard character, *Utilities*, 8-3
- Flying installs, *System Management*, 18-4
- /FMAP keyword
 - INS command (VMR), *System Management*, 5-22
 - INSTALL command, *MCR*, 3-96
 - <FMASK> symbol, *Indirect*, 2-25
- FMS-11 interface, *Indirect*, 2-61
- /FM switch, *Task Builder*, 10-19
- FMTBUF option, *Task Builder*, 12-16
- FMTNP1 formatter module, *Error Logging*, 4-6, 4-10, 4-11, 4-17, A-6
- FMT utility
 - command line, *Utilities*, 9-1, A-17
 - device support, *Utilities*, 9-7
 - error messages, *Utilities*, 9-10
 - initiating, *Utilities*, 9-1
 - operation mode, *Utilities*, 9-5
 - operation range, *Utilities*, 9-7
 - switches
 - /BAD, *Utilities*, 9-3
 - /DENS, *Utilities*, 9-3
 - /ERL, *Utilities*, 9-3
 - /MAN, *Utilities*, 9-4
 - /NOVE, *Utilities*, 9-4
 - /OVR, *Utilities*, 9-4
 - /VE, *Utilities*, 9-5
 - /WLT, *Utilities*, 9-5
 - /@Y, *Utilities*, 9-4
 - terminating, *Utilities*, 9-2
- FMTWP1 formatter module, *Error Logging*, 4-6, 4-10, 4-11, 4-17, A-6
- FNB
 - See also Filename block
 - definition, *I/O Operations*, 1-2
 - F11ACP, *I/O Operations*, H-11

- FNB
- F11ACP (cont'd.)
 - directory identification, *I/O Operations*, H-11
 - file identification, *I/O Operations*, H-11
 - file name, *I/O Operations*, H-11
 - file type, *I/O Operations*, H-11
 - file version number, *I/O Operations*, H-11
 - pointer, *I/O Operations*, H-11
 - status word, *I/O Operations*, H-11
 - wildcard context, *I/O Operations*, H-11
 - N.XXXX field, *I/O Operations*, B-3
 - Fnc parameter
 - QIO\$ basic syntax, *I/O Drivers*, 1-6
 - \$FNDPG (Find page), *System Library*, 8-38
 - \$FNERL Executive routine, *Error Logging*, 4-24
 - FO.APD value
 - opening file for appending, *I/O Operations*, 3-17
 - FO.MFY value
 - opening file for modifying, *I/O Operations*, 3-17
 - FO.RD value
 - opening file for reading, *I/O Operations*, 3-16
 - FO.UPD value
 - opening file for updating and extending, *I/O Operations*, 3-17
 - FO.WRT value
 - opening file for writing and creating, *I/O Operations*, 3-16
 - /FO job switch
 - QUE /MOD command, *Batch and Queue*, 2-19
 - /FO option
 - QUE /STA command, *System Management*, 3-37
 - *F operator
 - 1-word floating-point operator, *MACRO-11*, 5-30
 - <FORATT> symbol, *Indirect*, 2-19
 - FOR command, *Program Development*, 7-1, 7-4
 - /DE switch, *Program Development*, 7-7
 - FOR compiler task
 - creating object module, *Program Development*, 7-5
 - debugging statements, *Program Development*, 7-6
 - FOR compiler task (cont'd.)
 - diagnostic run, *Program Development*, 7-3, 7-4
 - FOR command, *Program Development*, 7-1
 - FORTTRAN command, *Program Development*, 7-1, 7-3
 - FTN file type, *Program Development*, 7-3, 7-4
 - /FOREIGN qualifier
 - MOUNT command, *DCL*, 5-10, 5-11, 5-13, 5-48
 - Shadow Recording preparation, *System Management*, 16-3
 - Foreign volume
 - See Volume
 - \$FORK1 routine, *Writing I/O Driver*, 7-19
 - Fork block, *Writing I/O Driver*, 1-19
 - storage area, *Writing I/O Driver*, 4-36
 - /FOR keyword
 - MOU command
 - Shadow Recording preparation, *System Management*, 16-3
 - MOUNT command, *MCR*, 3-113, 3-120
 - Fork list
 - head of (\$FRKHD), *Writing I/O Driver*, 2-15
 - Fork process, *Writing I/O Driver*, 1-8, 1-14, 1-19
 - definition, *Writing I/O Driver*, 1-8
 - \$FORK routine, *Writing I/O Driver*, 1-8, 1-19, 7-18
 - driver use in I/O processing, *Writing I/O Driver*, 3-5
 - Form
 - length
 - setting, *System Management*, 3-21
 - types, *System Management*, 3-21
 - width
 - setting, *System Management*, 3-21
 - FORMAT
 - RMSDES utility, *RMS-11 Utilities*, 2-36
 - Format
 - See also Record format
 - FORTTRAN IV
 - statement, *Program Development*, 7-3
 - MACRO-11
 - source file, *Program Development*, 2-1 to 2-3
 - statement, *Program Development*, 2-3
 - memory listing, *Debugging*, 6-5
 - of a MACRO-11 statement, *MACRO-11*, 1-1

Format (cont'd.)

- PSW, *Debugging*, B-1
- recommended source line format,
MACRO-11, 1-5
- Trace program listing, *Debugging*, 8-2
- Format register
 - See F register
- Format string
 - CFL, *Error Logging*, 5-41
- /FORMAT switch
 - RPT, *Error Logging*, 3-13
 - arguments, *Error Logging*, 3-13, 3-16, 3-19
 - processing, *Error Logging*, 4-4
- Formatter module, *Error Logging*, 4-5, 4-6, 4-10, 4-11, 4-17, A-6
- .FORM directive, *Indirect*, 2-61
 - commands, *Indirect*, 2-61
 - parameters, *Indirect*, 2-62
 - demonstrating, *Indirect*, 2-63
- Form feed, DCL, 3-21
 - cannot follow single or double quotation mark, MACRO-11, 5-19
 - effect inside macro definition, MACRO-11, 6-4
 - generates new page in listing, MACRO-11, 5-12
 - TTDRV, *I/O Drivers*, 2-71
- Form Feed command
 - EDI editor, *Utilities*, 7-25
- /FORMFEED keyword
 - SET command, MCR, 3-166
 - SET command (VMR), *System Management*, 5-55
- /FORMS qualifier
 - INITIALIZE/PROCESSOR command,
System Management, 3-21
 - PRINT command, *Batch and Queue*, 2-3
 - QUE /LI command, *Batch and Queue*, 2-14
 - SET QUEUE command, *Batch and Queue*, 2-19
 - START/PROCESSOR command, *System Management*, 3-37
- Form types, *System Management*, 3-21
 - specifying with /FORMS qualifier, *System Management*, 3-22
- FOR string
 - CON command line, *System Management*, 4-12
- FORTRAN
 - AST service routine, *Executive*, 1-19
 - common block

FORTRAN

- common block (cont'd.)
 - overlays, *Task Builder*, 3-20
- interface
 - K-series, *I/O Drivers*, 13-6 to 13-28
 - LADRV, *I/O Drivers*, 12-2
 - routine list (K-series), *I/O Drivers*, 13-6
- sample program (K-series), *I/O Drivers*, 13-30 to 13-33
 - completion routine, *I/O Drivers*, 13-32
 - with event flag, *I/O Drivers*, 13-31
- subroutine
 - LADRV, *I/O Drivers*, 12-2
 - virtual program section, *Task Builder*, 5-70
- FORTRAN carriage-control
 - record attribute, *I/O Operations*, 3-9
- FORTRAN command, *Program Development*, 7-1; *Introduction*, 5-12
- qualifiers
 - /D_LINES, *Program Development*, 7-7
 - /DE, *Program Development*, 7-7
 - /LIST, *Program Development*, 7-3, 7-7
 - /NOOBJECT, *Program Development*, 7-3
 - /OBJECT, *Program Development*, 7-3, 7-7
- FORTRAN IV
 - See also FOR compiler task
 - compiler task, *Program Development*, 7-1
 - formatting source statements, *Program Development*, 7-3
 - source file
 - blank line, *Program Development*, 7-3
 - comment line, *Program Development*, 7-3
 - specifying OTS to TKB, *Program Development*, 7-5
- FORTRAN subroutine
 - integer arguments, *Executive*, 1-12
 - list, *Executive*, 1-13
 - unavailable, *Executive*, 1-17
- Forward reference
 - invalid in current location counter assignment, MACRO-11, 2-12
- Forward referencing
 - in direct assignments statements, MACRO-11, 2-8
- /FORWARSPACE qualifier
 - START/PROCESSOR command, *System Management*, 3-37

- /FO subswitch
 - PIP utility, *Utilities*, 12-37
- /FO switch, *Task Builder*, 4-19, 10-20
 - PRI command, *Batch and Queue*, 2-3
 - QUE /LI command, *Batch and Queue*, 2-14
 - QUE /SP command, *System Management*, 3-21
 - RMSCNV utility, *RMS-11 Utilities*, 4-9, 4-15
- Four-byte signed integer key, *RMS-11 User's Guide*, 6-4
- Four-byte unsigned binary key, *RMS-11 User's Guide*, 6-5
- /FPRO keyword
 - HOME command, *MCR*, 3-80
 - INITVOLUME command, *MCR*, 3-87
 - MOUNT command, *MCR*, 3-113, 3-120
- /FP switch, *Task Builder*, 10-21
- FPT argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
- Fragmentation
 - extreme
 - PMT messages, *System Management*, 8-6
 - pool
 - definition, *System Management*, 8-6
 - setting fragment size, *System Management*, 8-10
- \$FREE macro, *RMS-11 Macro*, 5-58
- FREE operation, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - and shared access, *RMS-11 User's Guide*, 2-10
 - block stream, *RMS-11 Macro*, 4-13
 - \$FREE macro, *RMS-11 Macro*, 5-58
 - record stream, *RMS-11 Macro*, 4-8
- FREE setup command, *System Management*, 7-8
- F register, *Debugging*, 2-6, 5-3; *XDT*, 2-12
- Frequency
 - setting clock, *System Generation*, 5-34; *System Management*, 4-2
- \$FRKHD symbol, *Writing I/O Driver*, 2-15
- /FR switch
 - PIP utility, *Utilities*, 12-17
 - RMSRST utility, *RMS-11 Utilities*, 7-7
 - VFY utility, *Utilities*, 14-4
- FSR
 - as data structure, *I/O Operations*, 1-5
 - block buffer
 - block boundary, *I/O Operations*, 3-26
- FSR
 - block buffer (cont'd.)
 - locate mode, *I/O Operations*, 3-21, 3-26
 - pool space, *I/O Operations*, 2-36
 - space allocation, *I/O Operations*, 2-19
 - definition, *I/O Operations*, 1-3
 - general description, *I/O Operations*, 1-6
 - increasing size
 - FORTTRAN, *I/O Operations*, 2-39
 - MACRO-11, *I/O Operations*, 2-38
 - initialization FINIT\$ macro, *I/O Operations*, 2-37
 - initialization FSRSZ\$ macro, *I/O Operations*, 2-35
 - initializing, *I/O Operations*, 2-35
 - record I/O, *I/O Operations*, 2-35, 2-36
 - record I/O multibuffering, *I/O Operations*, 2-36
- \$\$FSR1 program section, *I/O Operations*, 1-6
- \$\$FSR2 program section
 - default UIC, *I/O Operations*, 4-4
 - file owner word, *I/O Operations*, 4-6
 - file protection word, *I/O Operations*, 4-5
 - general description, *I/O Operations*, 1-6
- FSRSZ\$ macro
 - FSR initialization, *I/O Operations*, 2-35
- FSS\$ directive, *Executive*, 5-97
- FSTMAP module
 - specifying for task, *Task Builder*, 10-20, 11-19
- FSTM module, *Task Builder*, 4-16
- FSTM routine, *Task Builder*, 4-19
- FTB, *Program Development*, 4-4; *Task Builder*, G-1 to G-2
 - specifying, *Task Builder*, 11-32
- FTN file type, *Program Development*, 7-3, 7-4
- /FULL_SEARCH qualifier, *Task Builder*, 11-33
- Full-duplex I/O, *Writing I/O Driver*, 1-14
- Full-duplex operation
 - TTDRV, *I/O Drivers*, 2-80
- Full format report, *Error Logging*, 1-4, 1-5
 - processing, *Error Logging*, 4-10, 4-17
 - RPT, *Error Logging*, 3-13, 3-16
- Full-functionality Executive
 - definition, *System Generation*, 1-10
 - features, *System Generation*, 3-23
 - SYSGEN question, *System Generation*, 3-23
- /FULL qualifier
 - ANALYZE/ERROR_LOG command, *Error Logging*, 3-13, 3-16

- /FULL qualifier
 - ANALYZE/ERROR_LOG command (cont'd.)
 - See also /FORMAT switch
 - LIBRARY command, *Program Development*, 6-10
 - SHOW QUEUE command, *Batch and Queue*, 2-14
- Function commands
 - IOX
 - description, *System Management*, 12-6
- Function directive, *MACRO-11*, 5-13
- Function mask
 - ACP, *Writing I/O Driver*, 4-18, 4-19
 - building for mask word, *Writing I/O Driver*, 4-20
 - control, *Writing I/O Driver*, 4-18, 4-19
 - establishing, *Writing I/O Driver*, 4-21
 - layout, *Writing I/O Driver*, 4-18, 4-19
 - legal
 - details, *Writing I/O Driver*, 4-19
 - no-op, *Writing I/O Driver*, 4-18, 4-19
- Function switches, *Crash Dump Analyzer*, 2-7 to 2-10
- /FU subswitch
 - PIP utility, *Utilities*, 12-19
- /FU switch, *Task Builder*, 10-22
 - LBR utility, *Program Development*, 6-11; *Utilities*, 10-22
 - QUE /LI command, *Batch and Queue*, 2-14
 - RMSDSP utility, *RMS-11 Utilities*, 5-2, 5-4
- :FW option
 - QUE /STA command, *System Management*, 3-37
- FXR task, *System Management*, 11-5

G

- GBL argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
 - for .PSECT, *MACRO-11*, 5-35
 - use for data sharing, *MACRO-11*, 5-38
- GBL attribute, *Task Builder*, 3-30
- GBLDEF option, *Task Builder*, 5-13, 12-17
- GBLINC option, *Task Builder*, 5-13, 12-18
- /GBL keyword
 - ASN command (VMR), *System Management*, 5-9, 5-10
 - ASSIGN command, *MCR*, 3-19, 3-21
 - DEFINE LOGICALS command, *MCR*, 3-55, 3-56, 3-57
- GBLPAT option, *Task Builder*, 12-19
 - See also TKB

- GBLREF option, *Task Builder*, 5-13, 12-20
- GBLXCL option, *Task Builder*, 5-14, 8-4, 12-21
- GCCI\$ directive, *Executive*, 5-101
- GCIH\$ directive, *Executive*, 5-105
- GCML, *I/O Operations*, 6-1, 6-3
 - control block
 - allocating, *I/O Operations*, 6-3
 - defining bit values, *I/O Operations*, 6-5
 - defining offsets, *I/O Operations*, 6-5
 - initializing, *I/O Operations*, 6-3
 - routine
 - run-time error, *I/O Operations*, 6-9
 - use, *I/O Operations*, 6-13
- GCML\$ macro, *I/O Operations*, 6-9
- GCMLB\$ macro, *I/O Operations*, 6-3
- GCMLD\$ macro, *I/O Operations*, 6-5, 6-6
- G command, *Debugging*, 2-8, 3-3, 3-4; *XDT*, 1-8, 2-13
 - ODT, *Program Development*, 5-6, 5-8
- GDIR\$ directive, *Executive*, 5-108
- GE conditional assembly test, *MACRO-11*, 5-45
- General Information directive, *Executive*, 5-111
- General-purpose directive, *Program Development*, 2-6 to 2-7
- General register, *Debugging*, 5-1
 - contents, *Debugging*, 5-2
 - examining, *Debugging*, 5-1
 - setting, *Debugging*, 5-1
- Generated system
 - copying, *System Generation*, 4-4
- Generic match, *RMS-11 Intro*, 3-12
- GEN partition
 - description, *System Management*, 7-7
- GEOMETRY summary report
 - processing, *Error Logging*, 4-7, 4-10
 - RPT, *Error Logging*, 3-23
- GET\$ macro, *I/O Operations*, 1-9, 3-1
 - example, *I/O Operations*, 3-19
- FD.RWM parameter
 - record I/O, *I/O Operations*, 2-10
- FDB
 - file processing, *I/O Operations*, 3-18, 3-20
 - locate mode, *I/O Operations*, 3-21
 - move mode, *I/O Operations*, 3-21
 - format
 - file processing, *I/O Operations*, 3-19
- GET\$R macro, *I/O Operations*, 3-1

- GET\$R macro (cont'd.)
 - file processing
 - read logical record random mode, *I/O Operations*, 3-22
- GET\$S macro, *I/O Operations*, 3-1
 - file processing
 - read logical record sequential mode, *I/O Operations*, 3-23
- GETADR subroutine, *Executive*, 1-12
- GET argument to ORG\$ macro, *RMS-11 Macro*, 2-3
- Get Assigned Device Name function (GIN\$), *Executive*, 5-111
- GET command
 - RMSDES utility, *RMS-11 Utilities*, 2-10, 2-17, 2-24
 - PROTECTION attribute, *RMS-11 Utilities*, 2-33
 - with SAVE, *RMS-11 Utilities*, 2-28
- Get Command for Command Interpreter directive, *Executive*, 5-100
- Get Command Interpreter Information directive, *Executive*, 5-105
- Get command line macro
 - See GCML
- Get Default Directory directive, *Executive*, 5-108
- Get Device Information function (GIN\$), *Executive*, 5-119
- Get Feature Mask Words function (GIN\$), *Executive*, 5-116
- \$GETGSA macro, *RMS-11 Macro*, 2-22
- Get LUN Information directive, *Executive*, 5-126
- \$GET macro
 - key access, *RMS-11 Macro*, 5-51
 - RFA access, *RMS-11 Macro*, 5-62
 - sequential access, *RMS-11 Macro*, 5-49
- Get Mapping Context directive, *Executive*, 5-131
- Get MCR Command Line directive, *Executive*, 5-129
- GET operation, *RMS-11 Macro*, 4-8; *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - access modes, *RMS-11 Intro*, 4-6
 - and bucket locking, *RMS-11 User's Guide*, 2-8
 - and ODL files, *RMS-11 User's Guide*, 8-5
 - and shared access, *RMS-11 User's Guide*, 2-6, 2-10
 - and stream records, *RMS-11 User's Guide*, 2-16 to 2-17

- GET operation (cont'd.)
 - declaring with ORG\$ macro, *RMS-11 Macro*, 2-3
 - deferred write, *RMS-11 User's Guide*, 7-9
- \$GET macro
 - key access, *RMS-11 Macro*, 5-63
 - RFA access, *RMS-11 Macro*, 5-67
 - sequential access, *RMS-11 Macro*, 5-60
- indexed files, *RMS-11 User's Guide*, 7-4, 7-5, 7-9
 - key access, *RMS-11 User's Guide*, 7-5
 - random by key, *RMS-11 User's Guide*, 5-13
 - RFA access, *RMS-11 User's Guide*, 7-5
 - sequential access, *RMS-11 User's Guide*, 5-17, 7-5
- key access, *RMS-11 User's Guide*, 1-16, 5-16
- locate mode, *RMS-11 User's Guide*, 3-14
 - indexed files, *RMS-11 User's Guide*, 7-8
 - relative files, *RMS-11 User's Guide*, 4-13
- move mode
 - indexed files, *RMS-11 User's Guide*, 7-7
 - relative files, *RMS-11 User's Guide*, 4-12
 - sequential files, *RMS-11 User's Guide*, 3-13
- relative files, *RMS-11 User's Guide*, 4-10
 - key access, *RMS-11 User's Guide*, 4-10
 - RFA access, *RMS-11 User's Guide*, 4-10
 - sequential access, *RMS-11 User's Guide*, 4-10
- RFA access, *RMS-11 User's Guide*, 1-16
- sequential access, *RMS-11 User's Guide*, 1-16
- sequential files, *RMS-11 User's Guide*, 3-9
 - key access, *RMS-11 User's Guide*, 3-9
 - RFA access, *RMS-11 User's Guide*, 3-9
 - sequential access, *RMS-11 User's Guide*, 3-9
- Get Partition Parameters directive, *Executive*, 5-134
- Get Region Parameters directive, *Executive*, 5-136
- Get Sense Switches directive, *Executive*, 5-138
 - SWITCH REGISTER command, *MCR*, 3-201
- Get-space routine, *RMS-11 Macro*, 2-20
 - example, *RMS-11 Macro*, 7-18

- Get-space routine (cont'd.)
 - macro
 - declaring, *RMS-11 Macro*, C-2
 - RMS-11-supplied, *RMS-11 Macro*, 2-4
- Get System APRs function (GIN\$), *Executive*, 5-121
- Get System UIC Information function (GIN\$), *Executive*, 5-112
- Get Task Parameters directive, *Executive*, 5-142
- Get Time Parameters directive, *Executive*, 5-140
- Get User Account Block function (GIN\$), *Executive*, 5-118
- GFB, *Executive*, 5-51, 5-76, 5-290
- G flag
 - in assembly listing, *MACRO-11*, 3-1
- GIN\$ directive, *Executive*, 5-111
 - GI.APR function, *Executive*, 5-121
 - GI.DEF function, *Executive*, 5-114
 - GI.DEV function, *Executive*, 5-119
 - GI.FMK function, *Executive*, 5-116
 - GI.GAS function, *Executive*, 5-111
 - GI.QMC function, *Executive*, 5-117
 - GI.REN function, *Executive*, 5-115
 - GI.SPR function, *Executive*, 5-114
 - GI.UAB function, *Executive*, 5-118
 - GI.UIC function, *Executive*, 5-112
 - GI.UPD function, *Executive*, 5-124
- \$\$\$GLB, *Executive*, 1-8
- Global cross-reference listing, *Program Development*, 4-5, 4-6
- Global expression
 - definition, *MACRO-11*, 2-15
- Global logical assignment, *MCR*, 3-14
- Global mode, *Indirect*, 2-54
- Global reference
 - including, *Task Builder*, 5-13
- /GLOBALS qualifier, *Task Builder*, 11-34
- Global switch
 - RMSBCK utility, *RMS-11 Utilities*, 6-5
 - RMSIFL utility, *RMS-11 Utilities*, 3-5
- Global symbol, *Program Development*, 1-4, 1-5
 - absolute, *Task Builder*, 2-8
 - creating with direct assignment statements, *MACRO-11*, 2-7
 - declaring, *Task Builder*, 12-20, 12-25, 12-38
 - default
 - disabling in *MACRO-11*, *Program Development*, 3-1, 3-2
- Global symbol (cont'd.)
 - defining, *Task Builder*, 5-13, 12-17; *MACRO-11*, 2-6
 - deleting definition, *Indirect*, 2-59
 - entry point, *Program Development*, 1-5, 6-5, 6-6, 6-9
 - excluding, *Task Builder*, 5-14
 - excluding from symbol definition file, *Task Builder*, 12-21
 - excluding from symbol table, *Task Builder*, 11-34
 - FDB macro, *I/O Operations*, 2-24
 - function, *MACRO-11*, 2-6
 - including, *Task Builder*, 5-13, 12-18
 - including in map file, *Task Builder*, 11-66
 - including in symbol table, *Task Builder*, 10-51, 11-57
 - relocatable, *Task Builder*, 2-8
 - reserved, *Task Builder*, E-1 to E-3
 - resolution, *Program Development*, 4-2, 6-8
 - resolving, *Task Builder*, 2-8, 3-18, 3-20
 - undefined, *Program Development*, 6-7, 6-8; *Task Builder*, 2-8
 - value at assembly time, *MACRO-11*, 2-15
- Global symbol directory
 - See GSD record
- .GLOBL directive, *MACRO-11*, 5-42
 - defines global user symbols, *MACRO-11*, 2-6
 - summary, *MACRO-11*, 5-2
- GLUN\$ directive, *Executive*, 5-126
 - summary, *I/O Operations*, F-1
- GLUN\$ macro, *I/O Drivers*, 1-15, 1-21
 - buffer, *I/O Drivers*, 2-9
 - example, *I/O Drivers*, 1-21, 1-22, 1-23
- get information
 - CRDRV, *I/O Drivers*, 9-1
 - DDDRV, *I/O Drivers*, 5-2
 - disk driver, *I/O Drivers*, 4-6
 - information table (TTDRV), *I/O Drivers*, 2-9
 - LADRV, *I/O Drivers*, 12-2
 - LPDRV, *I/O Drivers*, 7-3
 - LRDRV, *I/O Drivers*, 11-2
 - tape driver, *I/O Drivers*, 6-5
 - UNIBUS switch driver, *I/O Drivers*, 14-2
 - VTDRV, *I/O Drivers*, 3-1
 - information returned, *I/O Drivers*, 1-22
- GMCR\$ directive, *Executive*, 5-129
 - summary, *I/O Operations*, F-1
- GMCX\$ directive, *Executive*, 5-131

- \$GNCAL macro, *RMS-11 Macro*, C-2
- Go command
 - See G command
- GOLD function
 - EDT editor, *Introduction*, 2-3
- .GOSUB directive, *Indirect*, 2-64
- GOTO command, *Batch and Queue*, 3-9
 - See also ON and IF commands
 - example, *Batch and Queue*, 3-9
 - format
 - label, *Batch and Queue*, 3-9
- .GOTO directive, *Indirect*, 2-65
- GPRT\$ directive, *Executive*, 5-134
- Greater-than binary operator
 - CFL expression, *Error Logging*, 5-12
- Greater-than-or-equal binary operator
 - CFL expression, *Error Logging*, 5-12
- GREG\$ directive, *Executive*, 5-136
- G register, *Debugging*, 2-6, 5-4; *XDT*, 2-12
- /GR keyword
 - ASSIGN command, MCR, 3-19, 3-20, 3-21
 - DEFINE LOGICALS command, MCR, 3-55, 3-56, 3-57
- /GRO keyword
 - HELP command, MCR, 3-72
- Group global event flag, *Executive*, 2-2
 - creating, *Executive*, 2-4, 5-51
 - decrementing use count, *Executive*, 5-290
 - deleting, *Executive*, 2-4, 5-76
 - displaying, *Executive*, 2-4
 - eliminating, *Executive*, 5-290
 - reading, *Executive*, 5-184
- Group Global Event Flag Control Block
 - See GFB
- Group global event flag dump, *Crash Dump Analyzer*, 3-1, 3-14
- GROUP GLOBAL EVENT FLAGS command, MCR, 3-65
 - brief description, MCR, 1-5
 - examples, MCR, 3-65
 - format, MCR, 3-65
 - keywords
 - /CRE, MCR, 3-65
 - /ELIM, MCR, 3-65
- Group logical assignment, MCR, 3-14
- GSA\$ macro, *RMS-11 Macro*, 2-20
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11, 7-15
- GSD record, *Task Builder*, A-4
- \$GSPKT routine, *Writing I/O Driver*, 1-14, 7-20

- GSSW\$ directive
 - SWITCH REGISTER command, MCR, 3-201
- GSSW\$\$ directive, *Executive*, 5-138
- \$GTBYT routine, *Writing I/O Driver*, 7-19
- GT conditional assembly test, *MACRO-11*, 5-45
- \$GTCOR (Get core), *System Library*, 8-15
- .GTDID routine, *I/O Operations*, 4-19
 - default directory information, *I/O Operations*, 4-20
- .GTDIR routine, *I/O Operations*, 4-19
 - inserting directory information, *I/O Operations*, 4-19
- GTHIST: subroutine
 - gathering interevent time data (K-series), *I/O Drivers*, 13-19
- GTIM\$ directive, *Executive*, 5-140
- GTPKT\$ macro call
 - arguments, *Writing I/O Driver*, 4-6
- \$GTPKT routine, *Writing I/O Driver*, 1-5, 1-14, 1-18, 7-20
 - usage in driver code, *Writing I/O Driver*, 3-4
- GTSK\$ directive, *Executive*, 5-142
- \$GTWRD routine, *Writing I/O Driver*, 7-22

H

- H.CKSM offset
 - checksum word, *I/O Operations*, C-3
- H.FLEV offset
 - structure level, *I/O Operations*, C-1
- H.FNUM offset
 - file number, *I/O Operations*, C-1
- H.FOWN offset
 - offset to file owner, *I/O Operations*, C-1
- H.FPRO offset
 - file protection code, *I/O Operations*, C-1
- H.FSEQ offset
 - file sequence number, *I/O Operations*, C-1
- H.IDOF offset
 - header area, *I/O Operations*, C-1
- H.MPOF offset
 - map area offset, *I/O Operations*, C-1
- H.PROG offset
 - member number, *I/O Operations*, C-1
- H.PROJ offset
 - group number, *I/O Operations*, C-1
- H.SCHA offset
 - system-controlled file characteristics, *I/O Operations*, C-1

- H.UCHA offset
 - user-controlled file characteristics, *I/O Operations*, C-1
- H.UFAT offset
 - user file attributes, *I/O Operations*, C-1
- Halt indicators, *System Management*, 11-6
- Handler routine
 - CFL signalling, *Error Logging*, 5-39
 - /HARD_LIMIT qualifier
 - SET ERROR_LOG command, *Error Logging*, 2-9
 - See also /HL switch
- Hard error, *Error Logging*, 1-3; *System Management*, 10-7
 - defined, *Error Logging*, 2-9
 - definition, *System Management*, 11-3
- Hardware
 - program development, *Program Development*, 1-12
- Hardware bootstrap
 - definition, *System Generation*, 1-10
- Hardware configuration
 - K-series, *I/O Drivers*, 13-2
 - relationship to structures at block level, *Writing I/O Driver*, 2-1
- Hardware fault
 - categories, *System Management*, 11-1
 - definition, *System Management*, 11-1
 - intermittent, *System Management*, 11-2
 - media, *System Management*, 11-2
 - transient, *System Management*, 11-2
- Hardware interrupt
 - processing, *Executive*, 5-24
- /HDR, *Crash Dump Analyzer*, 2-4, 2-6
- /HDR3 keyword
 - MOUNT command, MCR, 3-120
- HDRDF\$, *Crash Dump Analyzer*, C-32
- /HD switch, *Task Builder*, 10-23
 - /AL subswitch, *Utilities*, 14-4
 - DMP utility, *Utilities*, 5-5
 - VFY utility, *Utilities*, 14-4
- Header
 - external
 - specifying for task, *Task Builder*, 10-55, 11-31
 - specifying for task image, *Task Builder*, 10-23, 11-35
 - task, *Task Builder*, B-12 to B-15
 - LUT entry, *Task Builder*, B-17
- Header area, *I/O Operations*, 5-4
 - file header block, *I/O Operations*, C-3
 - file number, *I/O Operations*, C-3
- Header area
 - file header block (cont'd.)
 - file owner information, *I/O Operations*, C-3
 - file protection code, *I/O Operations*, C-3
 - file sequence number, *I/O Operations*, C-3
 - identification area, *I/O Operations*, C-3
 - map area offset, *I/O Operations*, C-3
 - structure level, *I/O Operations*, C-3
 - user file attributes, *I/O Operations*, C-4
- Header block
 - file, *I/O Operations*, 5-4
- /HEADER qualifier, *Task Builder*, 11-35
- /HEADERS qualifier
 - BRU utility, *System Generation*, 2-10; *Utilities*, 3-16
- HEADER subpacket, *Error Logging*, 4-3
 - listing, *Error Logging*, 4-61
 - required, *Error Logging*, 4-10
- \$HEADR, *Writing I/O Driver*, 6-7, 6-9
 - pointer to first word of task header, *Writing I/O Driver*, 6-7
- HELLO command, MCR, 3-67; *Introduction*, 1-5
 - brief description, MCR, 1-7
 - error messages, MCR, 3-67
 - examples, MCR, 3-70
 - formats, MCR, 3-69
- HELP
 - RMSBCK utility, *RMS-11 Utilities*, 6-4
 - RMSCNV utility, *RMS-11 Utilities*, 4-5
 - RMSDEF utility, *RMS-11 Utilities*, A-5
 - RMSDES utility, *RMS-11 Utilities*, 2-2, 2-11
 - RMSDSP utility, *RMS-11 Utilities*, 5-3
 - RMSIFL utility, *RMS-11 Utilities*, 3-3
 - RMSRST utility, *RMS-11 Utilities*, 7-3
- HELP command, MCR, 3-72; *System Management*, 4-17 ; DCL, 1-10 to 1-12, 3-23 to 3-26, 9-17; *Introduction*, 1-11, 1-12, 3-9
 - brief description, MCR, 1-7
 - EDT editor, *Introduction*, 2-6, 2-12
 - example, MCR, 3-74; *System Management*, 4-17
 - formats, MCR, 3-72, 3-76; *System Management*, 4-17
 - IOX, *System Management*, 12-32
 - keywords
 - /CLI, MCR, 3-72

HELP command

keywords (cont'd.)

- /DCL, MCR, 3-72
- /FIL, MCR, 3-72
- /GRO, MCR, 3-72
- /LOC, MCR, 3-73
- /MCR, MCR, 3-73
- /OUT, MCR, 3-73

- qualifiers, MCR, 3-72

Help display

RMD

- description, *System Management*, 7-4

Help file, MCR, 3-72 to 3-78; *System*

- Generation*, 4-6; DCL, 3-26 to 3-31

- description, *System Management*, 1-11

- format, MCR, 3-73

- writing, DCL, 3-26

HEX argument

- for .LIST/.NLIST, MACRO-11, 5-7

HEX print radix

- CFL, *Error Logging*, 5-5

/HFILL keyword

- SET command, MCR, 3-167

- SET command (VMR), *System Management*, 5-55

/HF switch

- DMP utility, *Utilities*, 5-5

/HHT keyword

- SET command, MCR, 3-167

- SET command (VMR), *System Management*, 5-55

Highest precedence class operator

- CFL expression, *Error Logging*, 5-15

High-key value

- buckets, *RMS-11 User's Guide*, 5-5 to 5-6

/HIGH keyword

- LOAD command, MCR, 3-104

High-level language, *RMS-11 Intro*, 4-7;

- Introduction*, 5-11 to 5-12

- access streams, *RMS-11 User's Guide*, 1-15

- and asynchronous operations, *RMS-11 User's Guide*, 3-14

- and file design, *RMS-11 User's Guide*, 1-19

- and ODL files, *RMS-11 User's Guide*, 8-5

- and remote access, *RMS-11 User's Guide*, B-1

- asynchronous operations, *RMS-11 User's Guide*, 4-14

- bucket fill size, *RMS-11 User's Guide*, 6-29

- bucket size, *RMS-11 User's Guide*, 4-3, 6-21

- defaults, *RMS-11 User's Guide*, 2-2

- DEQ, *RMS-11 User's Guide*, 3-5, 4-4, 6-26

High-level language (cont'd.)

- file and directory operations, *RMS-11 User's Guide*, 3-15, 4-15, 7-10

- file operations, *RMS-11 User's Guide*, 8-10

- initial allocation, *RMS-11 User's Guide*, 3-4, 4-4, 6-26

- key characteristics, *RMS-11 User's Guide*, 6-8

- keys, *RMS-11 User's Guide*, 6-7

- locate mode, *RMS-11 User's Guide*, 3-14, 4-13

- MRN, *RMS-11 User's Guide*, 4-5

- placement control, *RMS-11 User's Guide*, 6-14

- populating files, *RMS-11 User's Guide*, 6-26

- restrictions, *RMS-11 User's Guide*, 1-13, 1-15, 2-1; *Executive*, 1-10

- subroutine, *Executive*, 1-9

- error conditions, *Executive*, 1-18

- optional arguments, *Executive*, 1-11

- specifying task names, *Executive*, 1-11

- supported, *Executive*, 1-10

High memory limit register

- See H register

- High pool condition, *System Management*, 8-3, 8-4

- High-speed device, *Writing I/O Driver*, 1-18

/HISTORY qualifier

- SHOW ERROR_LOG command, *Error Logging*, 2-13

HISTORY summary report

- processing, *Error Logging*, 4-7, 4-10

- RPT, *Error Logging*, 3-23

- HLP attribute, *System Management*, 18-38

/HL switch

- ELI, *Error Logging*, 2-3, 2-9

- See also /HARD_LIMIT qualifier

- with /SL switch, *Error Logging*, 2-10

/HO job switch

- SUB command, *Batch and Queue*, 3-15

- HOLD/ENTRY command, *Introduction*, 3-15

HOLD command

- format

- entry number, *Batch and Queue*, 2-22

- job name, *Batch and Queue*, 2-22

- HOLD/ENTRY, DCL, 4-93, 9-17

- HOLD/JOB, DCL, 4-93, 9-18

/HOLD keyword

- BYE command, MCR, 3-36

- SET command, MCR, 3-168

- /HOLD qualifier
 - PRINT command, *Batch and Queue*, 2-3
 - SUBMIT command, *Batch and Queue*, 3-15
 - HOLD SCREEN command, *Program Development*, 3-6
 - HOLD SCREEN key, *DCL*, 3-15; *Introduction*, 1-16
 - HOM command
 - See HOME command
 - Home block
 - changing, *MCR*, 3-79
 - checking with IOX, *System Management*, 12-6
 - initializing, *MCR*, 3-79
 - task
 - installing, *MCR*, 3-79
 - HOME command, *MCR*, 3-79
 - brief description, *MCR*, 1-5
 - example, *MCR*, 3-82
 - format, *MCR*, 3-79
 - keywords
 - /DENS, *MCR*, 3-80
 - /EXT, *MCR*, 3-80
 - /FPRO, *MCR*, 3-80
 - /LRU, *MCR*, 3-80
 - /MXF, *MCR*, 3-81
 - /NAME, *MCR*, 3-81
 - /OVR, *MCR*, 3-81
 - /OWNER, *MCR*, 3-81
 - /PRO, *MCR*, 3-81
 - /UIC, *MCR*, 3-82
 - /VI, *MCR*, 3-82
 - /WIN, *MCR*, 3-82
 - /HOST keyword
 - SET command, *MCR*, 3-168
 - Host system, *Task Builder*, C-1
 - definition, *System Generation*, 1-10
 - on line, *System Generation*, 2-5
 - stand alone, *System Generation*, 2-5
 - /HO switch
 - PRI command, *Batch and Queue*, 2-3
 - Hot backup
 - See also Online backup
 - HRC task, *System Management*, 1-12, 4-4
 - error messages, *System Management*, 4-36 to 4-40
 - format, *System Management*, 4-33
 - placing device off line, *System Management*, 4-6
 - placing device on line, *System Management*, 4-6
 - H register, *Debugging*, 2-6, 5-3, 6-2; *XDT*, 2-11
 - /HSYNC keyword
 - SET command, *MCR*, 3-169
 - SET command (VMR), *System Management*, 5-56
 - HWDDF\$, *Crash Dump Analyzer*, C-34
 - /HX switch
 - DMP utility, *Utilities*, 5-5
 - Hyphen (-)
 - extending command line with, *MCR*, 1-3
 - Hyphen (-)
 - extending command line with, *System Management*, 5-5
 - ODL operator, *Task Builder*, 3-26
-
- I
 - I.CRDT offset
 - creation date, *I/O Operations*, C-2
 - I.CRTI offset
 - creation time, *I/O Operations*, C-2
 - I.EXDT offset
 - expiration date, *I/O Operations*, C-2
 - I.FNAM offset
 - identification area, *I/O Operations*, C-2
 - I.FTYP offset
 - file type, *I/O Operations*, C-2
 - I.FVER offset
 - file version number, *I/O Operations*, C-2
 - I.RVDT offset
 - revision date, *I/O Operations*, C-2
 - I.RVNO offset
 - revision number, *I/O Operations*, C-2
 - I.RVTI offset
 - revision time, *I/O Operations*, C-2
 - I/O
 - and performance, *RMS-11 User's Guide*, 2-3
 - and record operations, *RMS-11 User's Guide*, 5-17
 - asynchronous, *Writing I/O Driver*, 1-16
 - asynchronous (XEDRV), *I/O Drivers*, 10-24
 - block operation, *I/O Operations*, 1-8
 - buffer
 - disable (VTDRV), *I/O Drivers*, 3-5
 - enable (VTDRV), *I/O Drivers*, 3-5
 - canceling, *I/O Drivers*, 1-29
 - VTDRV, *I/O Drivers*, 3-4
 - cancel in-progress, *Writing I/O Driver*, 2-5
 - completion, *I/O Drivers*, 1-8, 1-9, 1-11, 1-36

I/O (cont'd.)

- completion status (VTDRV), *I/O Drivers*, 3-6
- data-transfer mode, *I/O Operations*, 1-10
- device
 - attaching, *I/O Drivers*, 1-27
 - detaching, *I/O Drivers*, 1-28
- device-dependent, *I/O Drivers*, 1-1
- directive
 - condition, *I/O Drivers*, 1-37
 - status, *I/O Drivers*, 1-37
- directive summary, *I/O Operations*, F-1
- error
 - status list, *I/O Drivers*, B-1
- extended
 - subfunction modifier (TTDRV), *I/O Drivers*, 2-28
 - TTDRV, *I/O Drivers*, 2-21, 2-27
- failure, *I/O Drivers*, 1-37
- function support
 - F11ACP, *I/O Operations*, H-1
 - MTAACP, *I/O Operations*, H-2
- high-speed device, *Writing I/O Driver*, 1-16
- in progress
 - disk driver, *I/O Drivers*, 4-7
- issuing requests, *I/O Drivers*, 1-4
- kill I/O, *I/O Drivers*, 1-29
- locate mode, *I/O Operations*, 1-10, 1-11
- macro
 - QIO\$C form, *I/O Drivers*, 1-14
 - QIO\$ form, *I/O Drivers*, 1-13
 - QIO\$S form, *I/O Drivers*, 1-14
- move mode, *I/O Operations*, 1-10
- outstanding
 - before LUN reassignment, *I/O Drivers*, 1-3
- overlapped (disk driver), *I/O Drivers*, 4-8
- overview, *I/O Drivers*, 1-1; *Writing I/O Driver*, 3-3
- packet, *I/O Drivers*, 1-13
- paging operations, *RMS-11 User's Guide*, 8-10
- preparation
 - FCS macro, *I/O Operations*, 2-1
- processing requirements, *Writing I/O Driver*, 1-17
- read logical block, *I/O Drivers*, 1-30
- read virtual block, *I/O Drivers*, 1-31
- record
 - big buffering, *I/O Operations*, 1-12
 - multibuffering, *I/O Operations*, 1-11

I/O (cont'd.)

- record operation, *I/O Operations*, 1-8
- related macro, *I/O Drivers*, 1-13
 - form, *I/O Drivers*, 1-13
- request
 - issuing, *I/O Drivers*, 1-15
- return code, *I/O Drivers*, 1-36
- second status word (tape driver), *I/O Drivers*, 6-12
- slow-speed device, *Writing I/O Driver*, 1-16
- stall (RC25), *I/O Drivers*, 4-12
- standard function, *I/O Drivers*, 1-26
 - as a no-op, *I/O Drivers*, 1-26
 - code list, *I/O Drivers*, B-7
- success, *I/O Drivers*, 1-37
 - status list, *I/O Drivers*, B-5
- synchronization, *I/O Operations*, 1-8
- terminating (tape driver), *I/O Drivers*, 6-6
- window turning, *RMS-11 User's Guide*, 8-11
- write logical block, *I/O Drivers*, 1-32, 1-33
- I/O buffer, *RMS-11 User's Guide*, 1-14;
RMS-11 Intro, 4-2
- application design, *RMS-11 User's Guide*, 2-5
- remote access, *RMS-11 User's Guide*, B-3
 - indexed files, *RMS-11 User's Guide*, B-3
 - relative files, *RMS-11 User's Guide*, B-3
 - sequential files, *RMS-11 User's Guide*, B-3
- I/O buffer pool, *RMS-11 Macro*, 2-6
- I/O completion
 - error logging, *Error Logging*, 4-24
 - overlapped, *System Management*, 1-9;
Writing I/O Driver, 1-11
- I/O coordination
 - event flag, *I/O Operations*, 2-40
 - file operation, *I/O Operations*, 2-39
- I/O count, *Writing I/O Driver*, 1-12
 - definition, *System Management*, 10-7
- I/O Counts display
- RMD
 - altering from MCR command line,
System Management, 7-17
 - altering from setup page, *System Management*, 7-16
 - contents, *System Management*, 7-16
 - description, *System Management*, 7-15
 - DEVICE command, *System Management*, 7-17
 - example, *System Management*, 7-15

- I/O Counts display
 - RMD (cont'd.)
 - RATE command, *System Management*, 7-17
- I/O database structure
 - composite arrangement, *Writing I/O Driver*, 2-12
 - typical arrangements, *Writing I/O Driver*, 2-7, 2-8, 2-12
- I/O data structure
 - details, *Writing I/O Driver*, 4-10
 - overview, *Writing I/O Driver*, 2-1, 2-2, 2-3
 - typical arrangements, *Writing I/O Driver*, 2-6
- I/O error
 - IOX error codes, *System Management*, 12-13
- I/O error codes, *Indirect*, 2-13 to 2-17
- I/O exercise
 - See also IOX
 - terminating, *System Management*, 12-15
- I/O Exerciser
 - See IOX
- I/O finish
 - See \$IOFIN routine
- I/O function
 - code
 - basic syntax, *I/O Drivers*, 1-6
 - identical, *I/O Drivers*, 1-7
 - list, *I/O Drivers*, B-7
 - definition of types, *Writing I/O Driver*, 3-3
 - introduction, *I/O Drivers*, 1-1
 - mask values, *Writing I/O Driver*, 4-21
 - mask word bit settings, *Writing I/O Driver*, 4-21, 4-23, 4-24
 - summary, *I/O Drivers*, A-1
 - card reader, *I/O Drivers*, A-1
 - DECtape II, *I/O Drivers*, A-1
 - DEUNA, *I/O Drivers*, A-2
 - disk, *I/O Drivers*, A-2
 - F11ACP, *I/O Operations*, H-12
 - lab peripheral accelerator, *I/O Drivers*, A-2
 - line printer, *I/O Drivers*, A-3
 - magnetic tape, *I/O Drivers*, A-3
 - MTAACP, *I/O Operations*, H-14
 - parallel communication, *I/O Drivers*, A-4
 - terminal, *I/O Drivers*, A-4
 - UNIBUS switch, *I/O Drivers*, A-6
 - virtual terminal, *I/O Drivers*, A-6
- I/O function mask
 - establishing, *Writing I/O Driver*, 4-21
- I/O initiation
 - entry point, *Writing I/O Driver*, 4-59
 - sample use of alternative, *Writing I/O Driver*, 8-15, 8-30
 - overview, *Writing I/O Driver*, 2-5
- I/O macro
 - AST service routine, *I/O Operations*, 2-42
 - FCS, *I/O Operations*, 2-1
 - FDB, *I/O Operations*, 2-2
- I/O operation
 - subpacket information, *Error Logging*, 4-63
- I/O packet, *Writing I/O Driver*, 1-5, 8-3, 8-15
 - building, *Writing I/O Driver*, 4-10
 - composite arrangement, *Writing I/O Driver*, 2-15
 - creation of, *Writing I/O Driver*, 3-2
 - current address, *Writing I/O Driver*, 4-36
 - fields, *Writing I/O Driver*, 4-10, 4-12, 4-14
 - handling before it is queued, *Writing I/O Driver*, 8-3, 8-15, 8-30
 - layout, *Writing I/O Driver*, 4-10
- I/O page, *Writing I/O Driver*, 1-3
 - accessing, MCR, 3-175
 - overmapping, MCR, 3-144
 - specifying, MCR, 3-176
 - specifying for task, *Task Builder*, 10-25, 11-37
- I/O parameter
 - basic, *I/O Drivers*, 1-5
- I/O processing, *Writing I/O Driver*, 1-11
- I/O program example, *I/O Operations*, J-1
- I/O queue optimization, *System Management*, 14-1
 - Cylinder Scan, *Writing I/O Driver*, 1-17
 - default settings, *System Management*, 14-4
 - description, *System Management*, 1-18
 - displaying status, *System Management*, 14-3
 - Elevator, *Writing I/O Driver*, 1-17
 - error messages, *System Management*, 14-5
 - fairness count
 - default value, *System Management*, 14-3
 - maximum, *System Management*, 14-3
 - modifying, *System Management*, 14-4
 - specifying limit, *System Management*, 14-3
 - initiating, *System Management*, 14-2
 - methods, *System Management*, 14-1
 - Cylinder Scan, *System Management*, 14-2, 14-5

- I/O queue optimization
 - methods (cont'd.)
 - default, *System Management*, 14-2
 - Elevator, *System Management*, 14-2, 14-5
 - Nearest Cylinder, *System Management*, 14-2, 14-4
 - selecting, *System Management*, 14-4
 - Nearest Cylinder, *Writing I/O Driver*, 1-17
 - supported device types, *System Management*, 14-2
- I/O request, *Writing I/O Driver*, 1-4, 1-5, 1-11, 1-18
 - completing process for an, *Writing I/O Driver*, 3-3
 - flow of, *Writing I/O Driver*, 3-1, 3-3
 - issuing I/O for an, *Writing I/O Driver*, 3-3
 - queuing, *Executive*, 5-168, 5-172
- I/O requests, *Writing I/O Driver*, 1-16
- I/O routines, *Writing I/O Driver*, 1-16
- I/O sequential processing, *Writing I/O Driver*, 1-11
- I/O service time
 - components, *System Management*, 14-2
- I/O status, *I/O Drivers*, 1-36
 - block, *I/O Drivers*, 1-8, 1-11, 1-36, 1-38
 - CRDRV, *I/O Drivers*, 9-3
 - error test, *I/O Drivers*, 1-39
 - example, *I/O Drivers*, 1-38
 - first word content, *I/O Drivers*, 13-29
 - LADRV, *I/O Drivers*, 12-28
 - K-series, *I/O Drivers*, 13-6, 13-29
 - LADRV, *I/O Drivers*, 12-2, 12-27
 - LPDRV, *I/O Drivers*, 7-4
 - LRDRV, *I/O Drivers*, 11-4, 11-5, 11-11
 - return status (TTDRV), *I/O Drivers*, 2-66
 - UNIBUS switch driver, *I/O Drivers*, 14-7, 14-8
 - VTDRV, *I/O Drivers*, 3-8
 - 4-word (LADRV), *I/O Drivers*, 12-27
 - XEDRV, *I/O Drivers*, 10-21
 - block
 - different content (TTDRV), *I/O Drivers*, 2-53, 2-62
 - SF.GMC different (TTDRV), *I/O Drivers*, 2-53, 2-62
 - code, *I/O Drivers*, 1-37
 - binary value, *I/O Drivers*, 1-37
 - list, *I/O Drivers*, B-1
 - condition, *I/O Drivers*, 1-38
 - table, *I/O Drivers*, 1-40
- I/O status (cont'd.)
 - CRDRV, *I/O Drivers*, 9-6
 - return
 - completion, *I/O Drivers*, 1-36
 - DDDRV, *I/O Drivers*, 5-4
 - disk driver, *I/O Drivers*, 4-9
 - TTDRV, *I/O Drivers*, 2-66
 - VTDRV, *I/O Drivers*, 3-5
 - word
 - tape driver, *I/O Drivers*, 6-12
- I/O status block
 - See also IOSB
 - block I/O, *I/O Operations*, 2-12
 - defined in task, *I/O Operations*, 2-42
 - file I/O, *I/O Operations*, 2-41
- I/O subfunction
 - bit, *I/O Drivers*, 1-26
 - example, *I/O Drivers*, 1-26
 - unsupported, *I/O Drivers*, 1-26
 - summary
 - terminal, *I/O Drivers*, A-5
- I/O synchronization event flag, *I/O Operations*, 2-17, 3-10
- I/O technique
 - asynchronous operations, *RMS-11 User's Guide*, 3-14
 - deferred write, *RMS-11 User's Guide*, 2-17
 - indexed files, *RMS-11 User's Guide*, 7-8
 - deferred write, *RMS-11 User's Guide*, 7-8
 - multiple access streams, *RMS-11 User's Guide*, 7-10
 - multiple buffers, *RMS-11 User's Guide*, 7-9
 - sequential reads, *RMS-11 User's Guide*, 7-10
 - mass insertion, *RMS-11 User's Guide*, 2-18
 - MBC, *RMS-11 User's Guide*, 2-17
 - multiple buffers, *RMS-11 User's Guide*, 2-18
 - relative files, *RMS-11 User's Guide*, 4-14
 - deferred write, *RMS-11 User's Guide*, 4-14
 - multiple access streams, *RMS-11 User's Guide*, 4-15
 - multiple buffers, *RMS-11 User's Guide*, 4-15
 - sequential files, *RMS-11 User's Guide*, 3-14
 - deferred write, *RMS-11 User's Guide*, 3-14
 - MBC, *RMS-11 User's Guide*, 3-15

- I/O technique
 - sequential files (cont'd.)
 - multiple access streams, *RMS-11 User's Guide*, 3-15
 - multiple buffers, *RMS-11 User's Guide*, 3-14
 - I/O unit, *RMS-11 User's Guide*, 1-14
 - blocks, *RMS-11 User's Guide*, 1-16
 - buckets, *RMS-11 User's Guide*, 1-16
 - I/O wait for completion block I/O, *I/O Operations*, 3-36
 - I- and D-space
 - See also Data space
 - See also Instruction space
 - specifying for task, *Task Builder*, 10-24, 11-15
 - user-mode, *Task Builder*, 7-1
 - I- and D-space system
 - privileged task, *Task Builder*, 6-13
 - mapping, *Task Builder*, 6-13
 - I- and D-space task
 - allocating memory, *Task Builder*, 7-10 to 7-19
 - autoload vector, *Task Builder*, 7-10
 - identifying, *Task Builder*, 7-2
 - mapping, *Task Builder*, 7-2, 7-4
 - multiuser, *Task Builder*, 9-4
 - overlaid, *Task Builder*, 7-5 to 7-9
 - symbol definition file, *Task Builder*, 7-10
 - window, *Task Builder*, 7-5
 - I argument
 - for .PSECT, *MACRO-11*, 5-34
 - <IAS> symbol, *Indirect*, 2-11
 - IAS command string examples, *MACRO-11*, 7-13
 - IAS command string format, *MACRO-11*, 7-11
 - IAS file specification, *MACRO-11*, 7-16
 - IAS operating procedures, *MACRO-11*, 7-11, 7-13
 - IAS system error messages, *MACRO-11*, 7-16
 - IBFSTS: subroutine
 - get buffer status
 - K-series, *I/O Drivers*, 13-20
 - LADRV, *I/O Drivers*, 12-15
 - Ibufno parameter
 - IGTBUF: subroutine
 - K-series, *I/O Drivers*, 13-21
 - LADRV, *I/O Drivers*, 12-16
 - INXTBF: subroutine
 - K-series, *I/O Drivers*, 13-22
 - Ibufno parameter
 - INXTBF: subroutine (cont'd.)
 - LADRV, *I/O Drivers*, 12-17
 - IWTBUF: subroutine
 - K-series, *I/O Drivers*, 13-22
 - LADRV, *I/O Drivers*, 12-17
 - Ibuf parameter
 - ADSWP: subroutine
 - K-series, *I/O Drivers*, 13-8
 - LADRV, *I/O Drivers*, 12-3
 - DASWP: subroutine
 - K-series, *I/O Drivers*, 13-13
 - LADRV, *I/O Drivers*, 12-8
 - DISWP: subroutine
 - K-series, *I/O Drivers*, 13-15
 - LADRV, *I/O Drivers*, 12-10
 - DOSWP: subroutine
 - K-series, *I/O Drivers*, 13-17
 - LADRV, *I/O Drivers*, 12-13
 - GTHIST: subroutine (K-series), *I/O Drivers*, 13-19
 - IBFSTS: subroutine
 - K-series, *I/O Drivers*, 13-20
 - LADRV, *I/O Drivers*, 12-15
 - IGTBUF: subroutine
 - K-series, *I/O Drivers*, 13-21
 - LADRV, *I/O Drivers*, 12-16
 - INXTBF: subroutine
 - K-series, *I/O Drivers*, 13-22
 - LADRV, *I/O Drivers*, 12-17
 - ISTADC: subroutine (K-series), *I/O Drivers*, 13-25
 - IWTBUF: subroutine
 - K-series, *I/O Drivers*, 13-22
 - LADRV, *I/O Drivers*, 12-17
 - RLSBUF: subroutine
 - K-series, *I/O Drivers*, 13-23
 - LADRV, *I/O Drivers*, 12-19
 - RMVBUF: subroutine
 - K-series, *I/O Drivers*, 13-24
 - LADRV, *I/O Drivers*, 12-20
 - SETADC: subroutine (LADRV), *I/O Drivers*, 12-20
 - SETIBF: subroutine
 - K-series, *I/O Drivers*, 13-26
 - LADRV, *I/O Drivers*, 12-21
 - STPSWP: subroutine
 - K-series, *I/O Drivers*, 13-27
 - LADRV, *I/O Drivers*, 12-22
 - ICB, *Writing I/O Driver*, 1-2, 1-7, 1-13
 - number of controllers allowed, *Writing I/O Driver*, 1-7

ICB (cont'd.)
 pool size
 SYSGEN question, *System Generation*, 3-26

ICF module, *Error Logging*, 4-2

Ichan parameter
 ADINP: subroutine (K-series), *I/O Drivers*, 13-8

Ichn parameter
 ADSWP: subroutine
 K-series, *I/O Drivers*, 13-10
 LADRV, *I/O Drivers*, 12-5
 DASWP: subroutine
 K-series, *I/O Drivers*, 13-14
 LADRV, *I/O Drivers*, 12-10
 ISTADC: subroutine (K-series), *I/O Drivers*, 13-25
 SETADC: subroutine (LADRV), *I/O Drivers*, 12-20

ICLOKB: subroutine
 read 16-bit clock (K-series), *I/O Drivers*, 13-21

Icntrl parameter
 SCOPE: subroutine (K-series), *I/O Drivers*, 13-24

I command, *Debugging*, 2-8; XDT, 2-13

ICP, *Introduction*, 4-1 to 4-2

Idata parameter
 DOUT: subroutine (K-series), *I/O Drivers*, 13-18

IDB pool, *RMS-11 Macro*, 2-5

IDENT command, *System Management*, 4-18
 example, *System Management*, 4-18
 format, *System Management*, 4-18

.IDENT directive, *Program Development*, 2-5;
 MACRO-11, 5-11
 summary, *MACRO-11*, 5-2

Identification area, *I/O Operations*, 5-4
 file header block, *I/O Operations*, C-4
 creation date, *I/O Operations*, C-5
 creation time, *I/O Operations*, C-5
 expiration date, *I/O Operations*, C-5
 file name, *I/O Operations*, C-4
 file type, *I/O Operations*, C-4
 file version number, *I/O Operations*, C-4
 revision date, *I/O Operations*, C-4
 revision number, *I/O Operations*, C-4
 revision time, *I/O Operations*, C-4

/IDENTIFICATION qualifier
 BRU utility, *Utilities*, 3-17

IDENT option, *Task Builder*, 12-22

IDN conditional assembly test, *MACRO-11*, 5-45
 effect on .ENABL/.DSABL LCM,
 MACRO-11, 5-45

/ID option
 DTE command, *Utilities*, C-5

Id parameter
 device-specific function
 transmitting (LRDRV), *I/O Drivers*, 11-4

Idsc parameter
 LAMSKS: subroutine (LADRV), *I/O Drivers*, 12-18

/ID switch, *Task Builder*, 10-24
 DMP utility, *Utilities*, 5-5
 FLX utility, *Utilities*, 8-8
 PIP utility, *Utilities*, 12-17
 RMSBCK utility, *RMS-11 Utilities*, 6-4 to 6-5
 RMSCNV utility, *RMS-11 Utilities*, 4-5, 4-9
 RMSDEF utility, *RMS-11 Utilities*, A-5
 RMSDSP utility, *RMS-11 Utilities*, 5-3, 5-5
 RMSIFL utility, *RMS-11 Utilities*, 3-3, 3-5
 RMSRST utility, *RMS-11 Utilities*, 7-3
 VFY utility, *Utilities*, 14-5

Idsw parameter
 LAMSKS: subroutine (LADRV), *I/O Drivers*, 12-18

Idwell parameter
 ADSWP: subroutine (LADRV), *I/O Drivers*, 12-4
 DASWP: subroutine (LADRV), *I/O Drivers*, 12-9
 DISWP: subroutine (LADRV), *I/O Drivers*, 12-11
 DOSWP: subroutine (LADRV), *I/O Drivers*, 12-13

IDX argument to ORG\$ macro, *RMS-11 Macro*, 2-3

IE.ABO error return, *I/O Drivers*, 1-40
 ACP, *I/O Operations*, H-3
 CRDRV, *I/O Drivers*, 9-6
 disk driver, *I/O Drivers*, 4-9
 LPDRV, *I/O Drivers*, 7-5
 receiver (LRDRV), *I/O Drivers*, 11-12
 tape driver, *I/O Drivers*, 6-10
 transmitter (LRDRV), *I/O Drivers*, 11-8
 TTDRV, *I/O Drivers*, 2-66
 UNIBUS switch driver, *I/O Drivers*, 14-7
 VTDRV, *I/O Drivers*, 3-8
 XEDRV, *I/O Drivers*, 10-19, 10-22
 line error

- IE.ABO error return
 - XEDRV
 - line error (cont'd.)
 - initializing, *I/O Drivers*, 10-21
 - transmitting, *I/O Drivers*, 10-15
- IE.ADP error return, *I/O Drivers*, 1-37
- IE.ALC error return
 - ACP, *I/O Operations*, H-3
- IE.ALN error return, *I/O Drivers*, 1-40
 - ACP, *I/O Operations*, H-3
 - disk driver, *I/O Drivers*, 4-9
 - XEDRV, *I/O Drivers*, 10-5
- IE.BAD error return, *I/O Drivers*, 1-40
 - ACP, *I/O Operations*, H-3
 - receiver (LRDRV), *I/O Drivers*, 11-11
 - transmitter (LRDRV), *I/O Drivers*, 11-7
 - TTDRV, *I/O Drivers*, 2-66
 - UNIBUS switch driver, *I/O Drivers*, 14-8
 - VTDRV, *I/O Drivers*, 3-9
- IE.BBE error return, *I/O Drivers*, 1-40
 - disk driver, *I/O Drivers*, 4-10
 - receiver (LRDRV), *I/O Drivers*, 11-12
 - tape driver, *I/O Drivers*, 6-10
 - transmitter (LRDRV), *I/O Drivers*, 11-8
- IE.BCC error return
 - TTDRV, *I/O Drivers*, 2-67
- IE.BDR error return
 - ACP, *I/O Operations*, H-4
- IE.BLK error return, *I/O Drivers*, 1-40
 - disk driver, *I/O Drivers*, 4-10
- IE.BTP error return
 - ACP, *I/O Operations*, H-4
- IE.BVR error return
 - ACP, *I/O Operations*, H-4
- IE.BYT error return, *I/O Drivers*, 1-40
 - ACP, *I/O Operations*, H-4
 - disk driver, *I/O Drivers*, 4-10
 - tape driver, *I/O Drivers*, 6-10
- IE.CKS error return
 - ACP, *I/O Operations*, H-4
- IE.CLO error return
 - ACP, *I/O Operations*, H-4
- IE.CNR error return
 - UNIBUS switch driver, *I/O Drivers*, 14-8
- IE.DAA error return, *I/O Drivers*, 1-40
 - CRDRV, *I/O Drivers*, 9-6
 - LPDRV, *I/O Drivers*, 7-5
 - receiver (LRDRV), *I/O Drivers*, 11-12
 - tape driver, *I/O Drivers*, 6-10
 - TTDRV, *I/O Drivers*, 2-67
 - UNIBUS switch driver, *I/O Drivers*, 14-8
- IE.DAO error return
 - tape driver, *I/O Drivers*, 6-10
 - TTDRV, *I/O Drivers*, 2-67
 - XEDRV, *I/O Drivers*, 10-19
- IE.DFU error return
 - ACP, *I/O Operations*, H-4
- IE.DNA error return, *I/O Drivers*, 1-41
 - CRDRV, *I/O Drivers*, 9-6
 - LPDRV, *I/O Drivers*, 7-5
 - receiver (LRDRV), *I/O Drivers*, 11-11
 - tape driver, *I/O Drivers*, 6-11
 - TTDRV, *I/O Drivers*, 2-67
 - UNIBUS switch driver, *I/O Drivers*, 14-7
- IE.DNR error return, *I/O Drivers*, 1-41
 - DDDRV, *I/O Drivers*, 5-5
 - diagnostic
 - device not ready message, *I/O Drivers*, 1-35
 - disk driver, *I/O Drivers*, 4-10
 - power failure, *I/O Drivers*, 1-42
 - receiver (LRDRV), *I/O Drivers*, 11-11
 - tape driver, *I/O Drivers*, 6-11
 - transmitter (LRDRV), *I/O Drivers*, 11-7
 - TTDRV, *I/O Drivers*, 2-67
- IE.DOA error return
 - receiver (LRDRV), *I/O Drivers*, 11-11
- IE.DUN error return
 - VTDRV, *I/O Drivers*, 3-9
- IE.DUP error return
 - ACP, *I/O Operations*, H-4
- IE.EOF (end-of-file) code, MCR, 2-11
- IE.EOF error return, *I/O Drivers*, 1-41
 - ACP, *I/O Operations*, H-4
 - CRDRV, *I/O Drivers*, 9-7
 - tape driver, *I/O Drivers*, 6-11
 - TTDRV, *I/O Drivers*, 2-67
 - VTDRV, *I/O Drivers*, 3-9
- IE.EOT error return
 - tape driver, *I/O Drivers*, 6-11
- IE.EOV error return
 - tape driver, *I/O Drivers*, 6-11
- IE.FHE error return, *I/O Drivers*, 1-41
 - DDDRV, *I/O Drivers*, 5-5
 - disk driver, *I/O Drivers*, 4-10
 - receiver (LRDRV), *I/O Drivers*, 11-12
 - tape driver, *I/O Drivers*, 6-11
- IE.FLG error return
 - transmitter (LRDRV), *I/O Drivers*, 11-8
- IE.HFU error return
 - ACP, *I/O Operations*, H-4
- IE.IEF error return, *I/O Drivers*, 1-38

- IE.IES error return
 - TTDRV, *I/O Drivers*, 2-67
- IE.IFC error return, *I/O Drivers*, 1-41
 - ACP, *I/O Operations*, H-4
 - CRDRV, *I/O Drivers*, 9-7
 - DDDRV, *I/O Drivers*, 5-5
 - disk driver, *I/O Drivers*, 4-10
 - LPDRV, *I/O Drivers*, 7-5
 - receiver (LRDRV), *I/O Drivers*, 11-12
 - tape driver, *I/O Drivers*, 6-11
 - transmitter (LRDRV), *I/O Drivers*, 11-8
 - TTDRV, *I/O Drivers*, 2-67
 - UNIBUS switch driver, *I/O Drivers*, 14-9
 - VTDRV, *I/O Drivers*, 3-8, 3-9
 - XEDRV, *I/O Drivers*, 10-5, 10-15, 10-19, 10-20, 10-22
 - IO.XIN function, *I/O Drivers*, 10-21
- IE.IFU error return
 - ACP, *I/O Operations*, H-4
- IE.ILU error return, *I/O Drivers*, 1-38
- IE.LCK error return
 - ACP, *I/O Operations*, H-5
- IE.LUN error return
 - ACP, *I/O Operations*, H-5
- IE.NLN error return, *I/O Drivers*, 1-41
 - disk driver, *I/O Drivers*, 4-10
 - XEDRV, *I/O Drivers*, 10-15, 10-19, 10-20
 - IO.XIN function, *I/O Drivers*, 10-21
- IE.NOD error return, *I/O Drivers*, 1-41
 - ACP, *I/O Operations*, H-5
 - CRDRV, *I/O Drivers*, 9-7
 - disk driver, *I/O Drivers*, 4-10
 - TTDRV, *I/O Drivers*, 2-68
 - UNIBUS switch driver, *I/O Drivers*, 14-9
- IE.NSF error return
 - ACP, *I/O Operations*, H-5
 - XEDRV, *I/O Drivers*, 10-5
- IE.NTR error return
 - receiver (LRDRV), *I/O Drivers*, 11-12
- IE.OFL error return, *I/O Drivers*, 1-41
 - ACP, *I/O Operations*, H-5
 - CRDRV, *I/O Drivers*, 9-7
 - disk driver, *I/O Drivers*, 4-10
 - LPDRV, *I/O Drivers*, 7-5
 - tape driver, *I/O Drivers*, 6-12
 - TTDRV, *I/O Drivers*, 2-68
 - UNIBUS switch driver, *I/O Drivers*, 14-9
- IE.OVR error return, *I/O Drivers*, 1-41
 - disk driver, *I/O Drivers*, 4-10
- IE.PES error return
 - TTDRV, *I/O Drivers*, 2-68
- IE.PRI error return, *I/O Drivers*, 1-41
- IE.PRI error return (cont'd.)
 - ACP, *I/O Operations*, H-5
 - disk driver, *I/O Drivers*, 4-11
 - TTDRV, *I/O Drivers*, 2-68
 - XEDRV, *I/O Drivers*, 10-22
- IE.REJ error return
 - transmitter (LRDRV), *I/O Drivers*, 11-8
- IE.RER error return
 - ACP, *I/O Operations*, H-5
- IE.SDP error return, *I/O Drivers*, 1-38
- IE.SNC error return
 - ACP, *I/O Operations*, H-5
- IE.SPC error return, *I/O Drivers*, 1-42
 - ACP, *I/O Operations*, H-5
 - CRDRV, *I/O Drivers*, 9-7
 - disk driver, *I/O Drivers*, 4-11
 - LPDRV, *I/O Drivers*, 7-5
 - receiver (LRDRV), *I/O Drivers*, 11-11
 - tape driver, *I/O Drivers*, 6-12
 - transmitter (LRDRV), *I/O Drivers*, 11-7
 - TTDRV, *I/O Drivers*, 2-68
 - IO.ATA function, *I/O Drivers*, 2-24
 - UNIBUS switch driver, *I/O Drivers*, 14-8
 - VTDRV, *I/O Drivers*, 3-8
 - XEDRV, *I/O Drivers*, 10-15, 10-19, 10-22
- IE.SQC error return
 - ACP, *I/O Operations*, H-5
- IE.TMO error return
 - DDDRV, *I/O Drivers*, 5-5
 - UNIBUS switch driver, *I/O Drivers*, 14-9
 - XEDRV, *I/O Drivers*, 10-19
- IE.ULN error return, *I/O Drivers*, 1-38
- IE.UPN error return, *I/O Drivers*, 1-38
 - VTDRV, *I/O Drivers*, 3-9
- IE.VER error return, *I/O Drivers*, 1-42
 - DDDRV, *I/O Drivers*, 5-5
 - disk driver, *I/O Drivers*, 4-11
 - tape driver, *I/O Drivers*, 6-12
 - transmitter (LRDRV), *I/O Drivers*, 11-7
 - TTDRV, *I/O Drivers*, 2-68
- IE.WAC error return
 - ACP, *I/O Operations*, H-5
- IE.WAT error return
 - ACP, *I/O Operations*, H-5
- IE.WCK error return, *I/O Drivers*, 1-42
 - disk driver, *I/O Drivers*, 4-11
- IE.WER error return
 - ACP, *I/O Operations*, H-6
- IE.WLK error return, *I/O Drivers*, 1-42
 - ACP, *I/O Operations*, H-6
 - DDDRV, *I/O Drivers*, 5-5
 - disk driver, *I/O Drivers*, 4-11

- IE.WLK error return (cont'd.)
 - tape driver, *I/O Drivers*, 6-12
- lefn parameter
 - ADSWP: subroutine
 - K-series, *I/O Drivers*, 13-9
 - LADRV, *I/O Drivers*, 12-5
 - DASWP: subroutine
 - K-series, *I/O Drivers*, 13-13
 - LADRV, *I/O Drivers*, 12-9
 - DISWP: subroutine
 - K-series, *I/O Drivers*, 13-16
 - DOSWP: subroutine
 - K-series, *I/O Drivers*, 13-17
 - LADRV, *I/O Drivers*, 12-14
 - GTHIST: subroutine (K-series), *I/O Drivers*, 13-19
 - IWTBUF: subroutine
 - K-series, *I/O Drivers*, 13-22
 - LADRV, *I/O Drivers*, 12-17
- lemc parameter
 - LAMSKS: subroutine (LADRV), *I/O Drivers*, 12-18
- lemw parameter
 - LAMSKS: subroutine (LADRV), *I/O Drivers*, 12-19
- I error
 - .ASCII, *MACRO-11*, 5-20
 - .ASCIZ, *MACRO-11*, 5-21
 - invalid character, *MACRO-11*, 2-3
 - .RAD50, *MACRO-11*, 5-22
 - IFAB pool, *RMS-11 Macro*, 2-5
 - .IFACT directive, *Indirect*, 2-67
 - .IF B directive
 - use to detect missing arguments, *MACRO-11*, 6-9
 - IF command
 - See also STOP, CONTINUE, and GOTO commands
 - example, *Batch and Queue*, 3-12
 - format, *Batch and Queue*, 3-11
 - IF conditional declaration
 - CFL, *Error Logging*, 5-28
 - .IF DF directive
 - logical AND, OR operators have special meaning, *MACRO-11*, 5-45
 - .IFDF directive, *Indirect*, 2-68
 - .IF DIF directive
 - effect on .ENABL/.DSABL LCM, *MACRO-11*, 5-14
 - .IF directive, *Indirect*, 2-66; *MACRO-11*, 5-44
 - maximum nesting level, *MACRO-11*, 5-46
 - .IF directive (cont'd.)
 - summary, *MACRO-11*, 5-2
 - table of valid condition tests, *MACRO-11*, 5-45
 - .IFDISABLED directive, *Indirect*, 2-69
 - .IFENABLED directive, *Indirect*, 2-69
 - .IFF directive, *Indirect*, 2-70; *MACRO-11*, 5-46
 - summary, *MACRO-11*, 5-2
 - .IF IDN directive
 - effect on .ENABL/.DSABL LCM, *MACRO-11*, 5-14
 - .IFINS directive, *Indirect*, 2-69
 - IFLA.TMP (RMSIFL), *RMS-11 Utilities*, 3-11
 - allocating space, *RMS-11 Utilities*, 3-13
 - IFLA1.TMP (RMSIFL), *RMS-11 Utilities*, 3-12
 - allocating space, *RMS-11 Utilities*, 3-14
 - iflag parameter
 - ADINP: subroutine (K-series), *I/O Drivers*, 13-8
 - ISTADC: subroutine (K-series), *I/O Drivers*, 13-25
 - SETADC: subroutine (LADRV), *I/O Drivers*, 12-20
 - XRATE: subroutine
 - K-series, *I/O Drivers*, 13-28
 - LADRV, *I/O Drivers*, 12-23
 - IFLAP.TMP (RMSIFL), *RMS-11 Utilities*, 3-10
 - allocating space, *RMS-11 Utilities*, 3-13
 - .IFLOA directive, *Indirect*, 2-70
 - .IFNACT directive, *Indirect*, 2-67
 - .IF NB directive
 - use to detect missing arguments, *MACRO-11*, 6-9
 - .IF NDF directive
 - logical AND, OR operators have special meaning, *MACRO-11*, 5-45
 - .IFNDF directive, *Indirect*, 2-68
 - .IFNINS directive, *Indirect*, 2-69
 - .IFNLOA directive, *Indirect*, 2-70
 - IFORM, *System Management*, 18-20
 - .IFT directive, *Indirect*, 2-70; *MACRO-11*, 5-46
 - summary, *MACRO-11*, 5-2
 - .IFTF directive, *MACRO-11*, 5-46
 - summary, *MACRO-11*, 5-2
 - IF-THEN-ELSE statement
 - CFL, *Error Logging*, 5-33
 - IGTBUF: subroutine
 - return buffer number
 - K-series, *I/O Drivers*, 13-21
 - LADRV, *I/O Drivers*, 12-16

- IHAR\$\$ directive, *Executive*, 5-68
- .IIF directive, *MACRO-11*, 5-48
 - does not require .ENDC, *MACRO-11*, 5-49
 - summary, *MACRO-11*, 5-2
- Image file
 - for bootable system, *MCR*, 3-30
- /IMAGE qualifier
 - BRU utility, *Utilities*, 3-17
 - option
 - RESTORE, *Utilities*, 3-17
 - SAVE, *Utilities*, 3-17
- /IM switch
 - FLX utility, *Utilities*, 8-6
 - RMSCNV utility, *RMS-11 Utilities*, 4-9
 - VMR
 - definition, *System Management*, 5-6, 5-44
 - relationship to symbol definition file, *System Management*, 5-6
 - uses, *System Management*, 5-6
- .INC directive, *Indirect*, 2-72
- /INC keyword
 - INS command (VMR), *System Management*, 5-22
 - INSTALL command, *MCR*, 3-96
 - RUN command, *MCR*, 3-143
- INCLUDE command
 - EDT editor, *Introduction*, 2-19
- .INCLUDE directive, *MACRO-11*, 5-50
 - default device and file type, *MACRO-11*, 5-51
 - does implicit .PAGE, *MACRO-11*, 5-50
 - maximum nesting level, *MACRO-11*, 5-51
 - restriction on RT-11 systems, *MACRO-11*, 5-51
 - summary, *MACRO-11*, 5-2
- /INCLUDE qualifier, *Task Builder*, 11-36
- ANALYZE/ERROR_LOG command, *Error Logging*, 3-5, 3-11
 - See also /TYPE switch
 - arguments, *Error Logging*, 3-11, 3-12
- LINK command, *Program Development*, 6-6, 6-8
- START/ERROR_LOG command, *Error Logging*, 2-6
 - See also /LOG switch
- Inclusive OR operator
 - summary, *MACRO-11*, 2-4
- Inc parameter
 - ISTADC: subroutine (K-series), *I/O Drivers*, 13-25
- Inc parameter (cont'd.)
 - SETADC: subroutine (LADRV), *I/O Drivers*, 12-21
- Incremental reorganization, *RMS-11 User's Guide*, 5-12
- INCREMENT statement
 - CFL, *Error Logging*, 5-30
- Indefinite repeat directive, *MACRO-11*, 6-17
- Index, *RMS-11 User's Guide*, 5-2; *RMS-11 Intro*, 3-7
 - See also KEY block
 - alternate
 - bucket size calculation, *RMS-11 User's Guide*, 6-19
 - level 0, *RMS-11 User's Guide*, 5-5
 - SIDRs, *RMS-11 User's Guide*, 5-5
 - depth, *RMS-11 User's Guide*, 5-5
 - levels, *RMS-11 User's Guide*, 5-4, 5-6
 - data, *RMS-11 User's Guide*, 5-5
 - primary
 - bucket size calculation, *RMS-11 User's Guide*, 6-16
 - level 0, *RMS-11 User's Guide*, 5-5
 - root, *RMS-11 User's Guide*, 5-5
- INDEX_AREA
 - RMSEDES utility, *RMS-11 Utilities*, 2-41
- INDEX_FILL
 - RMSEDES utility, *RMS-11 Utilities*, 2-41
- Index bucket, *RMS-11 User's Guide*, 5-6
- Indexed file organization, *RMS-11 User's Guide*, 1-5 ; *RMS-11 Intro*, 3-6
 - See also Index
 - access declarations, *RMS-11 User's Guide*, 7-1
 - allocation, *RMS-11 User's Guide*, 6-22
 - DEQ, *RMS-11 User's Guide*, 6-26
 - initial, *RMS-11 User's Guide*, 6-22
 - alternate keys, *RMS-11 User's Guide*, 1-11; *RMS-11 Intro*, 3-7
 - and remote access, *RMS-11 User's Guide*, B-3
 - areas, *RMS-11 User's Guide*, 5-2, 6-10
 - multiarea files, *RMS-11 User's Guide*, 6-12
 - single-area files, *RMS-11 User's Guide*, 6-11
 - asynchronous operation, *RMS-11 User's Guide*, 7-8
 - bucket fill size, *RMS-11 User's Guide*, 6-28
 - bucket format, *RMS-11 User's Guide*, 5-2
 - bucket size, *RMS-11 User's Guide*, 6-15

Indexed file organization

bucket size (cont'd.)

- calculation, *RMS-11 User's Guide*, 6-16, 6-19
- prologue, *RMS-11 User's Guide*, 5-2
- bucket splitting, *RMS-11 User's Guide*, 5-11
- changeable keys, *RMS-11 Intro*, 3-10
- compressing deleted records, *RMS-11 User's Guide*, 5-10, 5-16, 6-7, 6-9
- CONNECT operation, *RMS-11 User's Guide*, 7-2
- contiguity, *RMS-11 User's Guide*, 6-13
- data level, *RMS-11 User's Guide*, 5-5
- data records, *RMS-11 User's Guide*, 5-2;
RMS-11 Intro, 3-7
- declaring with ORG\$ macro, *RMS-11 Macro*, 2-3
- deferred write, *RMS-11 User's Guide*, 6-27, 7-8
- DELETE operation, *RMS-11 User's Guide*, 5-15, 6-7, 7-3, 7-9
 - duplicate keys, *RMS-11 User's Guide*, 6-9
- depth, *RMS-11 User's Guide*, 5-5
- design, *RMS-11 User's Guide*, 5-1, 6-1
 - allocation, *RMS-11 User's Guide*, 6-22
 - areas, *RMS-11 User's Guide*, 6-10
 - bucket size, *RMS-11 User's Guide*, 6-15
 - keys, *RMS-11 User's Guide*, 6-2
 - placement control, *RMS-11 User's Guide*, 6-13
 - populating files, *RMS-11 User's Guide*, 6-26
 - record format, *RMS-11 User's Guide*, 6-1
 - record size, *RMS-11 User's Guide*, 6-1
- directory operations, *RMS-11 User's Guide*, 7-10
- DISCONNECT operation, *RMS-11 User's Guide*, 7-3
- duplicate keys, *RMS-11 Intro*, 3-10
- file operations, *RMS-11 User's Guide*, 7-10
- FIND operation, *RMS-11 User's Guide*, 7-3, 7-9
 - random by key, *RMS-11 User's Guide*, 5-13
 - sequential access, *RMS-11 User's Guide*, 5-17
- GET operation, *RMS-11 User's Guide*, 7-7 to 7-9
 - random by key, *RMS-11 User's Guide*, 5-13

Indexed file organization

GET operation (cont'd.)

- sequential access, *RMS-11 User's Guide*, 5-17
- I/O techniques, *RMS-11 User's Guide*, 7-8
- incremental reorganization, *RMS-11 User's Guide*, 5-12
- index, *RMS-11 Intro*, 3-7
- index buckets, *RMS-11 User's Guide*, 5-6
- index levels, *RMS-11 User's Guide*, 5-4, 5-6
- index records, *RMS-11 User's Guide*, 5-2, 5-6; *RMS-11 Intro*, 3-7
- keys, *RMS-11 User's Guide*, 1-5, 6-2;
RMS-11 Intro, 3-6
 - changeable, *RMS-11 User's Guide*, 6-9
 - characteristics, *RMS-11 User's Guide*, 6-8
 - data type, *RMS-11 User's Guide*, 6-3;
RMS-11 Intro, 3-7
 - duplicates, *RMS-11 User's Guide*, 6-8
 - null, *RMS-11 User's Guide*, 6-10
 - number of, *RMS-11 User's Guide*, 6-2
 - position, *RMS-11 User's Guide*, 6-7
 - size, *RMS-11 User's Guide*, 6-6
- level 0
 - alternate indexes, *RMS-11 User's Guide*, 5-5
 - primary indexes, *RMS-11 User's Guide*, 5-5
- locate mode, *RMS-11 User's Guide*, 7-7
- mass insertion, *RMS-11 User's Guide*, 6-28
- move mode, *RMS-11 User's Guide*, 7-7
- multiple access streams, *RMS-11 User's Guide*, 7-10
- multiple buffers, *RMS-11 User's Guide*, 7-9
- null keys, *RMS-11 Intro*, 3-10
- placement control, *RMS-11 User's Guide*, 6-13
- populating files, *RMS-11 User's Guide*, 6-26
 - primary key order, *RMS-11 User's Guide*, 6-27
 - random insertions, *RMS-11 User's Guide*, 6-28
- primary key, *RMS-11 User's Guide*, 1-11;
RMS-11 Intro, 3-7
- prologue, *RMS-11 User's Guide*, 5-2
- PUT operation, *RMS-11 User's Guide*, 6-7, 7-5, 7-7, 7-9
 - duplicate keys, *RMS-11 User's Guide*, 6-9
 - mass insertion, *RMS-11 User's Guide*, 7-9

- Indexed file organization
 - PUT operation (cont'd.)
 - random by key, *RMS-11 User's Guide*, 5-10
 - random access, *RMS-11 User's Guide*, 5-7, 6-12
 - record operations, *RMS-11 User's Guide*, 7-2
 - random access, *RMS-11 User's Guide*, 5-9
 - sequential access, *RMS-11 User's Guide*, 5-16
 - record transfer modes, *RMS-11 User's Guide*, 7-6
 - locate mode, *RMS-11 User's Guide*, 7-7
 - move mode, *RMS-11 User's Guide*, 7-7
 - REWIND operation, *RMS-11 User's Guide*, 7-6
 - root, *RMS-11 User's Guide*, 1-7, 5-5
 - search times, *RMS-11 User's Guide*, 5-8
 - segmented keys, *RMS-11 Intro*, 3-10
 - sequential reads, *RMS-11 User's Guide*, 7-10
 - shared access, *RMS-11 User's Guide*, 7-1
 - block access, *RMS-11 User's Guide*, 7-1
 - record access, *RMS-11 User's Guide*, 7-1
 - sharing declarations, *RMS-11 User's Guide*, 7-1
 - stream operations, *RMS-11 User's Guide*, 7-1
 - structure
 - conceptual, *RMS-11 User's Guide*, 5-4
 - physical, *RMS-11 User's Guide*, 5-2
 - tree structure, *RMS-11 Intro*, 3-7
 - UPDATE operation, *RMS-11 User's Guide*, 5-14, 7-6 to 7-9
 - changeable keys, *RMS-11 User's Guide*, 6-10
 - duplicate keys, *RMS-11 User's Guide*, 6-9
- Index file, *I/O Operations*, 5-3; *MCR*, 3-88
 - allocating file headers, *MCR*, 3-88
 - format, *I/O Operations*, E-1
 - listing contents, *Utilities*, 14-5
 - position
 - in large volumes, *System Management*, 1-8
 - in small volumes, *System Management*, 1-8
- /INDEX qualifier
 - INITIALIZE command, *System Management*, 1-8
- Index record, *RMS-11 User's Guide*, 5-6; *RMS-11 Intro*, 3-7
- Indicator
 - See Register indicator
- Indirect, *Indirect*, 1-1, 2-1
 - invoking interactively, *Indirect*, 1-10, 2-104
- Indirect command file, *Indirect*, 1-2, 2-1; *Task Builder*, 3-32; *Utilities*, 1-9; *DCL*, 1-23
 - BACKUP command, *DCL*, 5-124
 - BAD utility, *Utilities*, 2-6
 - block-structuring, *Indirect*, 2-4
 - chaining, *Indirect*, 2-47
 - CLI, *Indirect*, 2-2
 - default file type, *Indirect*, 2-2
 - nesting, *Indirect*, 2-3
 - comments in, *Task Builder*, 1-14
 - deleting, *Indirect*, 2-54
 - example, *Batch and Queue*, 3-13
 - format, *Batch and Queue*, 3-13
 - formatting, *Indirect*, 2-36
 - in batch jobs, *Batch and Queue*, 3-13
 - IOX, *System Management*, 12-11
 - LINK command
 - saving, *Task Builder*, 11-55
 - multiple, *Task Builder*, 1-13
 - ODL, *Task Builder*, 3-32
 - options in, *Task Builder*, 1-12
 - RMSBCK utility, *RMS-11 Utilities*, 6-2
 - RMSCNV utility, *RMS-11 Utilities*, 4-4
 - RMSDES utility, *RMS-11 Utilities*, 2-4
 - comments, *RMS-11 Utilities*, 2-4
 - RMSDSP utility, *RMS-11 Utilities*, 5-2
 - RMSIFL utility, *RMS-11 Utilities*, 3-2
 - RMSRST utility, *RMS-11 Utilities*, 7-2
 - searching for, *Indirect*, 2-5
 - SLP utility, *Utilities*, 13-8
 - task, *Indirect*, 2-1
 - default file type, *Indirect*, 2-2
 - nesting, *Indirect*, 2-2
 - tracing, *Indirect*, 2-33, 2-55
 - TUNE.CMD, *Error Logging*, 2-7, A-1
 - using, *Task Builder*, 1-12
 - using task name, *Indirect*, 2-5
- VMR
 - number of levels allowed, *System Management*, 5-4
 - requirements, *System Management*, 5-3
 - running VMR, *System Management*, 5-3

- Indirect command file
 - VMR (cont'd.)
 - specifying, *System Management*, 5-3
 - ZAP utility, *Utilities*, 15-4
- Indirect command file processing
 - delaying, *Indirect*, 2-51
 - interrupting, *Indirect*, 2-84
 - IPP, *Indirect*, 3-1
 - suspending, *Indirect*, 2-101
 - terminating, *Indirect*, 2-60, 2-73, 2-91
- Indirect command file switch
 - FMT utility, *Utilities*, 9-4
- Indirect Command Processor
 - See Indirect
- Indirect Pre-Processor
 - See IPP
- Ind parameter
 - ADSWP: subroutine (LADRV), *I/O Drivers*, 12-5
 - CLOCKA: subroutine
 - K-series, *I/O Drivers*, 13-11
 - LADRV, *I/O Drivers*, 12-6
 - CLOCKB: subroutine
 - K-series, *I/O Drivers*, 13-12
 - LADRV, *I/O Drivers*, 12-8
 - DASWP: subroutine (LADRV), *I/O Drivers*, 12-10
 - DINP: subroutine (K-series), *I/O Drivers*, 13-15
 - DISWP: subroutine (LADRV), *I/O Drivers*, 12-12
 - DOSWP: subroutine (LADRV), *I/O Drivers*, 12-14
 - INXTBF: subroutine
 - K-series, *I/O Drivers*, 13-22
 - LADRV, *I/O Drivers*, 12-17
 - ISTADC: subroutine (K-series), *I/O Drivers*, 13-26
 - LAMSKS: subroutine (LADRV), *I/O Drivers*, 12-19
 - RLSBUF: subroutine
 - K-series, *I/O Drivers*, 13-23
 - LADRV, *I/O Drivers*, 12-19
 - RMVBUFF: subroutine
 - K-series, *I/O Drivers*, 13-24
 - LADRV, *I/O Drivers*, 12-20
 - SETADC: subroutine (LADRV), *I/O Drivers*, 12-21
 - SETIBF: subroutine
 - K-series, *I/O Drivers*, 13-26
 - LADRV, *I/O Drivers*, 12-21
- Ind parameter (cont'd.)
 - STPSWP: subroutine
 - K-series, *I/O Drivers*, 13-27
 - LADRV, *I/O Drivers*, 12-22
 - /INDX keyword
 - INI command, *System Management*, 1-8
 - INITVOLUME command, MCR, 3-88
 - Inequality binary operator
 - CFL expression, *Error Logging*, 5-12
 - Infile
 - RMSBCK utility, *RMS-11 Utilities*, 6-3
 - RMSCNV utility, *RMS-11 Utilities*, 4-5
 - RMSDSP utility, *RMS-11 Utilities*, 5-3
 - RMSIFL utility, *RMS-11 Utilities*, 3-3
 - RMSRST utility, *RMS-11 Utilities*, 7-3
 - /INF keyword
 - INITVOLUME command, MCR, 3-88
 - Information
 - preventing loss, *System Management*, 1-14
 - Informational commands, MCR, 1-6
 - Inhibit AST Recognition directive, *Executive*, 5-68
 - \$INIBF routine, *Writing I/O Driver*, 1-16, 7-22
 - INI command
 - See also INITIALIZE VOLUME command keywords
 - /BAD
 - Shadow Recording preparation, *System Management*, 16-2
 - /EXT, *System Management*, 1-8
 - /INDX, *System Management*, 1-8
 - /WIN, *System Management*, 1-9
 - \$INIDM (Initialize memory), *System Library*, 7-2
 - \$INISI routine, *Writing I/O Driver*, 1-7
 - Initial allocation
 - indexed files, *RMS-11 User's Guide*, 6-22
 - relative files, *RMS-11 User's Guide*, 4-3
 - sequential files, *RMS-11 User's Guide*, 3-4
 - Initialization commands, MCR, 1-5
 - Initialization field, *RMS-11 Macro*, 2-10
 - INITIALIZE/PRINTER command
 - /SHAREABLE qualifier, *System Management*, 3-8
 - INITIALIZE/PROCESSOR command, *System Management*, 3-19
 - processor types, *System Management*, 3-19
 - qualifiers, *System Management*, 3-19
 - /BATCH_QUEUE, *System Management*, 3-20
 - /CONSOLE, *System Management*, 3-20

- INITIALIZE/PROCESSOR command
 - qualifiers (cont'd.)
 - /FLAG_PAGE, *System Management*, 3-21
 - /FORMS, *System Management*, 3-21
 - /LOWERCASE, *System Management*, 3-23
 - /NOWARNINGS, *System Management*, 3-23
 - /PRINTER_QUEUE, *System Management*, 3-20
 - /SHAREABLE, *System Management*, 3-23
 - /UPPERCASE, *System Management*, 3-24
 - restrictions, *System Management*, 3-24
- INITIALIZE/QUEUE command, *System Management*, 3-17
 - initializing batch queues, *System Management*, 3-12
 - initializing print queues, *System Management*, 3-5
 - qualifiers
 - /BATCH, *System Management*, 3-17
 - /PRINT, *System Management*, 3-17
- INITIALIZE command, DCL, 5-4, 5-11, 5-13, 5-67 to 5-79, 9-18
 - /BADBLOCKS qualifier
 - Shadow Recording preparation, *System Management*, 16-2
 - /EXTENSION qualifier, *System Management*, 1-8
 - /INDEX qualifier, *System Management*, 1-8
- INITIALIZE/FORMAT, DCL, 5-80 to 5-86, 9-20
- INITIALIZE/PROCESSOR
 - input, DCL, 9-19
 - output, DCL, 9-19
- INITIALIZE/QUEUE, DCL, 9-20
- INITIALIZE/UPDATE, DCL, 5-87 to 5-90, 9-20
 - qualifiers
 - /BATCH_PROCESSOR
 - interactive use, *System Management*, 3-11
 - /WINDOW qualifier, *System Management*, 1-9
- /INITIALIZE qualifier
 - BRU utility, *Utilities*, 3-18
- INITIALIZE VOLUME command, MCR, 3-83
 - using to modify file system, *System Management*, 1-8
- /INIT keyword
 - CLI command, *System Management*, 17-2
- COMMAND LINE INTERPRETER
 - command, MCR, 3-42
 - subkeywords, MCR, 3-42 to 3-44
- INITL module
 - errors from, *Writing I/O Driver*, 6-3
- INITM1 control file module, *Error Logging*, 4-4, 4-33, A-6
- INITP1 control file module, *Error Logging*, 4-11
- INITS macro
 - calling example (LADRV), *I/O Drivers*, 12-24
 - special calling (LADRV), *I/O Drivers*, 12-24
 - special-purpose (K-series), *I/O Drivers*, 13-28
- INITVOLUME command
 - brief description, MCR, 1-5
 - default file protection, MCR, 2-3
 - examples, MCR, 3-92
 - format, MCR, 3-83
 - keywords
 - /ACCESS, MCR, 3-84
 - /BAD, MCR, 3-85
 - /DENS, MCR, 3-87
 - /EXT, MCR, 3-87
 - /FPRO, MCR, 3-87
 - /INDX, MCR, 3-88
 - /INF, MCR, 3-88
 - /LRU, MCR, 3-89
 - /MXF, MCR, 3-89
 - /OWNER, MCR, 3-90
 - /POS, MCR, 3-90
 - /PRO, MCR, 3-91
 - /SDI, MCR, 3-91
 - /UIC, MCR, 3-91
 - /VI, MCR, 3-91
 - /WIN, MCR, 3-92
 - parameters, MCR, 3-84
- \$INIVM (Initialize virtual memory), *System Library*, 8-5
- Input, *Introduction*, 1-4
 - buffer
 - intermediate (TTDRV), *I/O Drivers*, 2-81
 - checkpoint
 - terminal (TTDRV), *I/O Drivers*, 2-83
 - default read (TTDRV), *I/O Drivers*, 2-15

Input (cont'd.)
line

delete start (TTDRV), *I/O Drivers*,
2-72

parameter

DINP: subroutine (K-series), *I/O
Drivers*, 13-15

procedure for soliciting, MCR, 2-14

unsolicited

definition, MCR, 2-13

unsolicited (TTDRV), *I/O Drivers*, 2-15,
2-58, 2-70

Input file

reducing processing, *Task Builder*, F-6

Input file switch

RMSBCK utility, *RMS-11 Utilities*, 6-8

RMSDSP utility, *RMS-11 Utilities*, 7-8

RMSIFL utility, *RMS-11 Utilities*, 3-7

/INPUT function

QUE /SP command, *System Management*,
3-20

/INPUT processor type, *System Management*,
3-20

/INQUIRE keyword

SET command, MCR, 3-169

/INQUIRE qualifier

SET TERMINAL command, DCL, 3-41

INSBLD.CMD file, MCR, 3-100

INS command

See also INSTALL command

/CLI keyword, *System Management*, 17-2

VMR

definition, *System Management*, 5-20

examples, *System Management*, 5-27 to
5-28

format, *System Management*, 5-20

keywords

/AFF, *System Management*, 5-21

/CKP, *System Management*, 5-21

/CLI, *System Management*, 5-21

/DFB, *System Management*, 5-22

/FMAP, *System Management*, 5-22

/INC, *System Management*, 5-22

/IOP, *System Management*, 5-23

/PMD, *System Management*, 5-23

/PRI, *System Management*, 5-23

/PRO, *System Management*, 5-23

/RON, *System Management*, 5-24

/ROPAR, *System Management*,
5-24

/SEC, *System Management*, 5-24

/SLV, *System Management*, 5-25

INS command

VMR

keywords (cont'd.)

/SYNC, *System Management*, 5-25

/TASK, *System Management*, 5-25

/UIC, *System Management*, 5-25

/WB, *System Management*, 5-26

/XHR, *System Management*, 5-26

notes, *System Management*, 5-26 to
5-27

parameters, *System Management*, 5-21

INSERT command

EDT editor, *Introduction*, 2-14

Insert command

EDI editor, *Program Development*, 2-17,
7-7; *Utilities*, 7-25

/INSERT qualifier

LIBRARY command, *Program Development*,
6-9

Installation (system), *System Management*, 1-9

INSTALL command, MCR, 3-94; DCL, 7-28
to 7-36, 9-21; *Introduction*, 5-8

brief description, MCR, 1-5

format, MCR, 3-94

installing BPR.TSK, *System Management*,
3-10

installing LPP.TSK, *System Management*,
3-6

installing task, MCR, 2-19, 2-21

/INTERPRETER qualifier, *System
Management*, 17-2

keywords

/AFF, MCR, 3-95

/CKP, MCR, 3-95

/CLI, MCR, 3-96

/DFB, MCR, 3-96

/FMAP, MCR, 3-96

/INC, MCR, 3-96

/IOP, MCR, 3-97

/PAR, MCR, 3-97

/PMD, MCR, 3-97

/PRI, MCR, 3-97

/PRO, MCR, 3-97

/RON, MCR, 3-98

/ROPAR, MCR, 3-98

/SEC, MCR, 3-98

/SLV, MCR, 3-98

/SYNC, MCR, 3-99

/TASK, MCR, 3-99

/TIME, MCR, 3-99

/UIC, MCR, 3-99

/WB, MCR, 3-99

- INSTALL command
 - keywords (cont'd.)
 - /XHR, MCR, 3-100
 - loading COT task, *System Management*, 9-2
 - parameters, MCR, 3-95
 - /TASK qualifier
 - installing batch processors, *System Management*, 3-11
 - VMR
 - See INS command
- INSTALL task
 - build command file, MCR, 3-100
- Instruction set
 - commercial
 - list, MACRO-11, C-3
- Instruction space, *Debugging*, 3-2, 7-2; *Executive*, 3-1; XDT, 2-4
 - command, *Debugging*, 2-8; XDT, 2-13
 - enabling, *Debugging*, 1-3
 - mapping, *Executive*, 3-3
 - moving data, *Executive*, 5-155
- /IN switch
 - LBR utility, *Program Development*, 6-9; *Utilities*, 10-20
- Integer key
 - 2-byte signed, *RMS-11 User's Guide*, 6-4
 - 4-byte signed, *RMS-11 User's Guide*, 6-4
- Integer routine
 - divide (\$DIV), *System Library*, 3-2
 - multiply (\$MUL), *System Library*, 3-1
- Interactive mode
 - IOX
 - description, *System Management*, 12-10
 - valid commands, *System Management*, 12-10
- Interactive utility
 - RMSDES utility, *RMS-11 Utilities*, 2-1
- Interface
 - customizing, *System Management*, 1-18
 - terminal (TTDRV), *I/O Drivers*, 2-82
- INTERLEAVE command
 - IOX, *System Management*, 12-33
 - FILES11, SELECT, and VERIFY
 - command lines, *System Management*, 12-33
 - initial default, *System Management*, 12-33
 - restrictions, *System Management*, 12-33
 - sequential testing, *System Management*, 12-33
 - specifying LBNs, *System Management*, 12-33
- Intermittent failure, *System Management*, 11-2
 - example, *System Management*, 11-2
 - re-creating conditions, *System Management*, 11-2
- Intermodule variable
 - block number, *Error Logging*, 4-32
 - cylinder error, *Error Logging*, 4-32
 - declaration, *Error Logging*, 4-13
 - device function, *Error Logging*, 4-32
 - drive serial number, *Error Logging*, 4-32
 - drive type, *Error Logging*, 4-32
 - error type, *Error Logging*, 4-32
 - group error, *Error Logging*, 4-32
 - head error, *Error Logging*, 4-32
 - physical unit number, *Error Logging*, 4-32
 - sector error, *Error Logging*, 4-32
 - user-written module, *Error Logging*, 4-32
- Internal register, *Debugging*, 5-2
 - accessing, *Debugging*, 5-2
- Internal symbol directory
 - See ISD record type
- /INTERPRETER qualifier
 - INSTALL command, *System Management*, 17-2
- Interrupt, *Writing I/O Driver*, 1-1
 - addresses
 - overview, *Writing I/O Driver*, 2-6
 - connect-to directive, *Writing I/O Driver*, 1-1
 - definition, *System Generation*, 1-11
 - dispatching, *Writing I/O Driver*, 1-8
 - for common interrupt devices, *Writing I/O Driver*, 1-13
 - overview, *Writing I/O Driver*, 2-6
 - entry address, *Writing I/O Driver*, 2-4
 - entry point, *Writing I/O Driver*, 4-64, 4-65
 - for overlapped seek, *Writing I/O Driver*, 1-13
 - handling, *Writing I/O Driver*, 1-5, 1-8, 1-9, 1-13
 - protocol, *Writing I/O Driver*, 1-6, 1-9
 - service routine, *Writing I/O Driver*, 1-5, 1-6
 - unexpected, *Error Logging*, 1-6
 - vector, *Writing I/O Driver*, 1-1, 1-13
- Interrupt (clock)
 - rate, *System Management*, 1-6
- Interrupt Control Block
 - See ICB
- Interrupt processing, XDT, 1-4
 - by driver, *Writing I/O Driver*, 3-3

- Interrupt save
 - See \$INTSV routine
- Interrupt Service Routine
 - See ISR
- Interrupt timeout, *Error Logging*, 1-6
- Interrupt vector
 - changing value, *System Management*, 4-29
 - constructing linkages, *MCR*, 3-103
- Intersystem echo loops, *Utilities*, C-2, C-5
- Intersystem file transfer, *RMS-11 Utilities*, 1-2, 6-1
 - RMSCNV utility, *RMS-11 Utilities*, 4-1
 - RMSRST utility, *RMS-11 Utilities*, 7-1, 7-10
 - /FR switch, *RMS-11 Utilities*, 7-7
- Interval report
- IOX
 - output frequency, *System Management*, 12-56
- \$INTSE routine, *Writing I/O Driver*, 7-23
- \$INTSI routine, *Writing I/O Driver*, 1-7
- INTSV\$ macro call
 - arguments, *Writing I/O Driver*, 4-7
- \$INTSV routine, *Writing I/O Driver*, 1-6, 1-7, 7-23
- \$INTXT routine, *Writing I/O Driver*, 1-7, 7-24
- Invalid Login Transaction Block, *System Management*, 10-39
- /INVOLUME qualifier
 - BRU utility, *Utilities*, 3-18
- INXTBF: subroutine
 - set next buffer
 - K-series, *I/O Drivers*, 13-21
 - LADRV, *I/O Drivers*, 12-16
- IO.ACE function
 - F11ACP, *I/O Operations*, H-13
 - MTAACP, *I/O Operations*, H-14
- IO.ACP function
 - MTAACP, *I/O Operations*, H-16
- IO.ACR function
 - F11ACP, *I/O Operations*, H-13
 - MTAACP, *I/O Operations*, H-14
- IO.ACW function
 - F11ACP, *I/O Operations*, H-13
 - MTAACP, *I/O Operations*, H-14
- IO.APV function
 - MTAACP, *I/O Operations*, H-16
- IO.ATA function
 - TTDRV, *I/O Drivers*, 2-22
- IO.ATF function
 - receiving (LRDRV), *I/O Drivers*, 11-10
- IO.ATT function
 - before GLUN\$, (RX02), *I/O Drivers*, 4-11
 - standard function, *I/O Drivers*, 1-27
 - UNIBUS switch driver, *I/O Drivers*, 14-3
 - VTDRV, *I/O Drivers*, 3-4
- IO.ATX function
 - transmitter (LRDRV), *I/O Drivers*, 11-5
- IO.BLS function
 - DDDRV, *I/O Drivers*, 5-4
- IO.CCO function
 - TTDRV, *I/O Drivers*, 2-25
 - VFC (TTDRV), *I/O Drivers*, 2-77
- IO.CLK function
 - LADRV, *I/O Drivers*, 12-25
- IO.CON function
 - device-specific (UNIBUS switch driver), *I/O Drivers*, 14-5
- IO.CRE function
 - F11ACP, *I/O Operations*, H-12
 - MTAACP, *I/O Operations*, H-15
- IO.CRX function
 - receiving (LRDRV), *I/O Drivers*, 11-9
- IO.CSR function
 - device-specific (UNIBUS switch driver), *I/O Drivers*, 14-6
- IO.DAC function
 - F11ACP, *I/O Operations*, H-13
 - MTAACP, *I/O Operations*, H-15
- IO.DEL function
 - F11ACP, *I/O Operations*, H-12
- IO.DET function
 - standard function, *I/O Drivers*, 1-28
 - UNIBUS switch driver, *I/O Drivers*, 14-3, 14-4
 - VTDRV, *I/O Drivers*, 3-4
- IO.DGN function
 - diagnostic (DDDRV), *I/O Drivers*, 5-4
- IO.DIS function
 - device-specific (UNIBUS switch driver), *I/O Drivers*, 14-5
- IO.DPT function
 - device-specific (UNIBUS switch driver), *I/O Drivers*, 14-5, 14-6
- IO.DRX function
 - receiving (LRDRV), *I/O Drivers*, 11-10
- IO.DSE function
 - tape driver, *I/O Drivers*, 6-8
- IO.EIO function
 - TTDRV, *I/O Drivers*, 2-27
 - item list 1 buffer, *I/O Drivers*, 2-32

- IO.EIO function
 - TTDRV (cont'd.)
 - item list 2 buffer, *I/O Drivers*, 2-34
 - remote terminal, *I/O Drivers*, 2-27
- IO.ENA function
 - F11ACP, *I/O Operations*, H-13
 - MTAACP, *I/O Operations*, H-14
- IO.ERS function (tape driver), *I/O Drivers*, 6-8
- IO.EXT function
 - F11ACP, *I/O Operations*, H-13
- IO.FNA function
 - F11ACP, *I/O Operations*, H-13
 - MTAACP, *I/O Operations*, H-14
- IO.GTS function
 - support
 - returned (TTDRV), *I/O Drivers*, 2-36
 - TTDRV, *I/O Drivers*, 2-20, 2-35
 - VTDRV, *I/O Drivers*, 3-7
- IO.HNG function
 - TTDRV, *I/O Drivers*, 2-37
- IO.INI function
 - LADRV, *I/O Drivers*, 12-26
- IO.KIL function
 - CRDRV, *I/O Drivers*, 9-2
 - LPDRV, *I/O Drivers*, 7-4
 - standard function, *I/O Drivers*, 1-29
 - tape driver, *I/O Drivers*, 6-6
 - UNIBUS switch driver, *I/O Drivers*, 14-4
 - VTDRV, *I/O Drivers*, 3-4
- IO.LOD function
 - LADRV, *I/O Drivers*, 12-26
- IO.RAL function
 - Badge Reader (TTDRV), *I/O Drivers*, 2-84
 - TTDRV, *I/O Drivers*, 2-38
- IO.RAT function
 - F11ACP, *I/O Operations*, H-13
 - MTAACP, *I/O Operations*, H-16
- IO.RLB function
 - ignoring prompt (TTDRV), *I/O Drivers*, 2-30
 - standard function, *I/O Drivers*, 1-30
 - tape driver, *I/O Drivers*, 6-8
 - VTDRV, *I/O Drivers*, 3-5
- IO.RLC function
 - DDDRV, *I/O Drivers*, 5-4
- IO.RNA function
 - F11ACP, *I/O Operations*, H-13
- IO.RNE function
 - Badge Reader (TTDRV), *I/O Drivers*, 2-84
 - TTDRV, *I/O Drivers*, 2-40
- IO.RPR function
 - TTDRV, *I/O Drivers*, 2-42
 - VFC (TTDRV), *I/O Drivers*, 2-77
 - VTDRV, *I/O Drivers*, 3-7
- IO.RST function
 - TTDRV, *I/O Drivers*, 2-45
 - successful completion, *I/O Drivers*, 2-45
- IO.RTF function
 - receiving (LRDRV), *I/O Drivers*, 11-10
- IO.RTT function
 - TTDRV, *I/O Drivers*, 2-46
- IO.RVB function
 - F11ACP, *I/O Operations*, H-14
 - MTAACP, *I/O Operations*, H-15
 - operation (disk driver), *I/O Drivers*, 4-8
 - standard function, *I/O Drivers*, 1-31
 - VTDRV, *I/O Drivers*, 3-5
- IO.RWD function
 - tape driver, *I/O Drivers*, 6-8
- IO.RWU function
 - tape driver, *I/O Drivers*, 6-8
- IO.SEC function
 - before GLUN\$ (RX02), *I/O Drivers*, 4-11
 - tape driver, *I/O Drivers*, 6-8
 - transmitter (LRDRV), *I/O Drivers*, 11-5
- IO.SMC function
 - TTDRV, *I/O Drivers*, 2-62
- IO.SMO function
 - tape driver, *I/O Drivers*, 6-10
- IO.STA function
 - data transfer start (LADRV), *I/O Drivers*, 12-26
- IO.STC function
 - LRDRV
 - transmitter, *I/O Drivers*, 11-6
 - parameters, *I/O Drivers*, 11-6
 - VTDRV, *I/O Drivers*, 3-5
- IO.STP function
 - data transfer stop (LADRV), *I/O Drivers*, 12-27
- IO.SWI function
 - device-specific (UNIBUS switch driver), *I/O Drivers*, 14-7
- IO.ULK function
 - F11ACP, *I/O Operations*, H-13
- IO.WAL function
 - TTDRV, *I/O Drivers*, 2-48
- IO.WBT function
 - TTDRV, *I/O Drivers*, 2-51
 - VFC (TTDRV), *I/O Drivers*, 2-77

- IO.WLB function
 - ignoring prompt (TTDRV), *I/O Drivers*, 2-30
 - standard function, *I/O Drivers*, 1-32, 1-33
 - VFC (TTDRV), *I/O Drivers*, 2-77
 - VTDRV, *I/O Drivers*, 3-5
- IO.WLC function
 - DDDRV, *I/O Drivers*, 5-4
- IO.WVB function
 - F11ACP, *I/O Operations*, H-14
 - operation (disk driver), *I/O Drivers*, 4-8
 - VFC (TTDRV), *I/O Drivers*, 2-77
 - VTDRV, *I/O Drivers*, 3-5
- IO.XCL function
 - XEDRV, *I/O Drivers*, 10-4, 10-19
 - error return, *I/O Drivers*, 10-20
 - status return, *I/O Drivers*, 10-20
 - syntax, *I/O Drivers*, 10-19
- IO.XIN function
 - XEDRV, *I/O Drivers*, 10-4, 10-20
 - error return, *I/O Drivers*, 10-20
 - status return, *I/O Drivers*, 10-20
 - syntax, *I/O Drivers*, 10-20
- IO.XOP function
 - XEDRV, *I/O Drivers*, 10-4, 10-5
 - syntax, *I/O Drivers*, 10-5
- IO.XRC function
 - XEDRV, *I/O Drivers*, 10-4, 10-15
 - diagnostic, *I/O Drivers*, 10-22
 - error return, *I/O Drivers*, 10-18
 - status return, *I/O Drivers*, 10-18
 - syntax, *I/O Drivers*, 10-15
- IO.XSC function
 - XEDRV, *I/O Drivers*, 10-4, 10-7
 - syntax, *I/O Drivers*, 10-7
- IO.XTL function
 - XEDRV, *I/O Drivers*, 10-21
 - error return, *I/O Drivers*, 10-22
 - status return, *I/O Drivers*, 10-22
 - syntax, *I/O Drivers*, 10-21
- IO.XTM function
 - XEDRV, *I/O Drivers*, 10-4, 10-11
 - diagnostic, *I/O Drivers*, 10-22
 - error return, *I/O Drivers*, 10-15
 - status return, *I/O Drivers*, 10-15
 - syntax, *I/O Drivers*, 10-11
- IO_ACTIVITY subpacket, *Error Logging*, 4-3
 - listing, *Error Logging*, 4-64
- /IO_PAGE qualifier, *Task Builder*, 11-37
- \$IOALT routine, *Writing I/O Driver*, 1-14, 1-17, 7-24
- \$IOALT routine (cont'd.)
 - driver use in I/O processing, *Writing I/O Driver*, 3-5
- \$IODON routine, *Writing I/O Driver*, 1-14, 7-24
 - driver use in I/O processing, *Writing I/O Driver*, 3-5
- \$IODSA routine, *Writing I/O Driver*, 7-24
- IOERR\$ macro, *I/O Drivers*, 1-8
 - I/O completion code, *I/O Drivers*, 1-37
- \$IOFIN routine, *Writing I/O Driver*, 1-14, 1-16, 3-3, 7-26
- /IOP keyword
 - INS command (VMR), *System Management*, 5-23
 - INSTALL command, *MCR*, 3-97
 - RUN command, *MCR*, 3-143
- IOSB
 - validity checks, *Writing I/O Driver*, 3-2
- IOSB line termination
 - TTDRV
 - control characters, *I/O Drivers*, 2-75
- iosb parameter -
 - K-series
 - DINP: subroutine, *I/O Drivers*, 13-15
 - DOUT: subroutine, *I/O Drivers*, 13-18
 - SCOPE: subroutine, *I/O Drivers*, 13-24
- IOT trap instruction, *XDT*, 1-8
- lout parameter
 - DOUT: subroutine (K-series), *I/O Drivers*, 13-18
- IOX, *System Management*, 1-15
 - aborting tasks, *System Management*, 12-15
 - clock
 - turning on, *System Management*, 12-9
 - command categories
 - control, *System Management*, 12-6
 - display, *System Management*, 12-6
 - function, *System Management*, 12-6
 - parameter, *System Management*, 12-6
 - command language
 - conventions, *System Management*, 12-14
 - syntax, *System Management*, 12-14
 - commands
 - ABORT, *System Management*, 12-15
 - BADBLOCKS, *System Management*, 12-16
 - BUFFERSIZE, *System Management*, 12-18
 - COMPAREDATA, *System Management*, 12-19

IOX (cont'd.)

- specifying record number
 - cassette, *System Management*, 12-46
 - magnetic tape, *System Management*, 12-46
- starting, *System Management*, 12-55
- status display, *System Management*, 12-54
- steps for exercising a device, *System Management*, 12-2
- stopping, *System Management*, 12-15
- task-build file, *System Management*, 12-2
- terminating, *System Management*, 12-29
 - PROCEED command, *System Management*, 12-43
- wait-for-event flag, *System Management*, 12-61
- write-check, *System Management*, 12-62
- IOXBLD.BLD file, *System Management*, 12-2
- IOX reports
 - activity, *System Management*, 12-12
 - accumulated totals, *System Management*, 12-12
 - content, *System Management*, 12-12
 - controlling output, *System Management*, 12-13
 - directing to device, *System Management*, 12-34
 - example, *System Management*, 12-12
 - format, *System Management*, 12-12
 - interval, *System Management*, 12-12
 - summary, *System Management*, 12-12
 - generating, *System Management*, 12-42
 - error, *System Management*, 12-13
 - data compare, *System Management*, 12-13
 - directing to device, *System Management*, 12-34
 - disabling, *System Management*, 12-47
 - enabling, *System Management*, 12-47
 - example, *System Management*, 12-13
 - queue I/O, *System Management*, 12-13
 - types, *System Management*, 12-47
 - interval
 - output frequency, *System Management*, 12-56
 - types, *System Management*, 12-11
- IP11 industrial I/O subsystem
 - SYSGEN question, *System Generation*, 3-31
- IP11 powerfail support
 - SYSGEN question, *System Generation*, 3-31
- IPP, *Indirect*, 3-1

IPP (cont'd.)

- invoking, *Indirect*, 3-2
- short forms, *Indirect*, 3-3
- lprset parameter
 - ADSWP: subroutine (K-series), *I/O Drivers*, 13-9
 - CLOCKA: subroutine
 - K-series, *I/O Drivers*, 13-10
 - LADRV, *I/O Drivers*, 12-6
 - CLOCKB: subroutine
 - K-series, *I/O Drivers*, 13-11
 - LADRV, *I/O Drivers*, 12-7
 - DASWP: subroutine (K-series), *I/O Drivers*, 13-13
 - DISWP: subroutine (K-series), *I/O Drivers*, 13-16
 - DOSWP: subroutine (K-series), *I/O Drivers*, 13-17
 - GTHIST: subroutine (K-series), *I/O Drivers*, 13-19
 - XRATE: subroutine
 - K-series, *I/O Drivers*, 13-27
 - LADRV, *I/O Drivers*, 12-23
- /IP switch, *Task Builder*, 10-25
- IQ.Q function
 - disk driver, *I/O Drivers*, 4-8
- IQ.UMD bit
 - diagnostic function, *I/O Drivers*, 1-3
- IQ.X function
 - disk driver, *I/O Drivers*, 4-8
- IRAB pool, *RMS-11 Macro*, 2-5
- irate parameter
 - CLOCKA: subroutine
 - K-series, *I/O Drivers*, 13-10
 - LADRV, *I/O Drivers*, 12-6
 - CLOCKB: subroutine
 - K-series, *I/O Drivers*, 13-11
 - LADRV, *I/O Drivers*, 12-7
 - XRATE: subroutine
 - K-series, *I/O Drivers*, 13-27
 - LADRV, *I/O Drivers*, 12-23
- lrbuf parameter
 - IO.INI function (LADRV), *I/O Drivers*, 12-26
- I register, *Debugging*, 2-6, 5-4; *XDT*, 1-1
- .IRPC directive, *MACRO-11*, 6-18
 - restriction using label, *MACRO-11*, 6-1
 - summary, *MACRO-11*, 6-1
- .IRP directive, *MACRO-11*, 6-17
 - summary, *MACRO-11*, 6-1
- IS.CC status return
 - TTDRV, *I/O Drivers*, 2-68

- IS.CR status return, *I/O Drivers*, 1-39
 - TTDRV, *I/O Drivers*, 2-68
 - VTDRV, *I/O Drivers*, 3-6
- IS.ESC status return, *I/O Drivers*, 1-39
 - VTDRV, *I/O Drivers*, 3-6
- IS.ESQ status return
 - TTDRV, *I/O Drivers*, 2-69
 - VTDRV, *I/O Drivers*, 3-6
- IS.PND status return, *I/O Drivers*, 1-40
 - CRDRV, *I/O Drivers*, 9-6
 - disk driver, *I/O Drivers*, 4-9
 - LPDRV, *I/O Drivers*, 7-4
 - TTDRV, *I/O Drivers*, 2-69
 - UNIBUS switch driver, *I/O Drivers*, 14-8
- IS.RDD status return
 - disk driver, *I/O Drivers*, 4-9
- IS.SEC status return
 - TTDRV, *I/O Drivers*, 2-68
- IS.SUC (success) code, MCR, 2-11
- IS.SUC success return, *I/O Drivers*, 1-37, 1-40
 - CRDRV, *I/O Drivers*, 9-6
 - DDDRV, *I/O Drivers*, 5-5
 - diagnostic success, *I/O Drivers*, 1-35
 - disk driver, *I/O Drivers*, 4-9
 - initializing line
 - IO.XIN function, *I/O Drivers*, 10-21
 - line message status
 - receiving, *I/O Drivers*, 10-19
 - transmitting, *I/O Drivers*, 10-15
 - load microcode (XEDRV), *I/O Drivers*, 10-22
 - LPDRV, *I/O Drivers*, 7-4
 - receiver (LRDRV), *I/O Drivers*, 11-11
 - tape driver, *I/O Drivers*, 6-10
 - transmitter (LRDRV), *I/O Drivers*, 11-7
 - TTDRV, *I/O Drivers*, 2-69
 - UNIBUS switch driver, *I/O Drivers*, 14-8
 - VTDRV, *I/O Drivers*, 3-6, 3-8, 3-9
 - XEDRV, *I/O Drivers*, 10-5, 10-20
- IS.TMO status return
 - TTDRV, *I/O Drivers*, 2-69
- IS.TNC status return
 - LRDRV
 - transmitter, *I/O Drivers*, 11-7
- IS.TNC status return (LRDRV)
 - receiver, *I/O Drivers*, 11-11
- Isb parameter
 - general (TTDRV), *I/O Drivers*, 2-12
 - I/O completion, *I/O Drivers*, 1-36
 - IO.ATA function (TTDRV), *I/O Drivers*, 2-23
- Isb parameter (cont'd.)
 - IO.ATT function, *I/O Drivers*, 1-27
 - IO.CCO function (TTDRV), *I/O Drivers*, 2-26
 - IO.DET function, *I/O Drivers*, 1-28
 - IO.EIO function (TTDRV), *I/O Drivers*, 2-28
 - IO.GTS function (TTDRV), *I/O Drivers*, 2-35
 - IO.HNG function (TTDRV), *I/O Drivers*, 2-37
 - IO.KIL function, *I/O Drivers*, 1-29
 - IO.RAL function (TTDRV), *I/O Drivers*, 2-38
 - IO.RLB function, *I/O Drivers*, 1-30
 - IO.RNE function (TTDRV), *I/O Drivers*, 2-40
 - IO.RPR function (TTDRV), *I/O Drivers*, 2-42
 - IO.RST function (TTDRV), *I/O Drivers*, 2-45
 - IO.RTT function (TTDRV), *I/O Drivers*, 2-47
 - IO.RVB function, *I/O Drivers*, 1-31
 - IO.SMC function (TTDRV), *I/O Drivers*, 2-62
 - IO.WAL function (TTDRV), *I/O Drivers*, 2-49
 - IO.WBT function (TTDRV), *I/O Drivers*, 2-51
 - IO.WLB function, *I/O Drivers*, 1-32
 - IO.WVB function, *I/O Drivers*, 1-33
 - omitted, *I/O Drivers*, 1-38
 - QIO\$ basic syntax, *I/O Drivers*, 1-8
 - SF.GMC function (TTDRV), *I/O Drivers*, 2-53
- ISD record type, *Task Builder*, A-26
 - format, *Task Builder*, A-27
 - literal, *Task Builder*, A-36
 - relocatable, *Task Builder*, A-30 to A-35
 - TKB-generated, *Task Builder*, A-28 to A-30
- I-space
 - See Instruction space
- ISR, *Executive*, 5-24
- ISTAT\$ macro, *I/O Operations*, 7-1, 7-2
- Istat parameter
 - IBFSTS: subroutine
 - K-series, *I/O Drivers*, 13-20
 - LADRV, *I/O Drivers*, 12-15
- ITBDF\$, *Crash Dump Analyzer*, C-39

Itim parameter

ICLOCKB: subroutine (K-series), *I/O Drivers*, 13-21

Iunit parameter

DIGO: subroutine (K-series), *I/O Drivers*, 13-14

DINP: subroutine (K-series), *I/O Drivers*, 13-15

DISWP: subroutine
K-series, *I/O Drivers*, 13-16
LADRV, *I/O Drivers*, 12-12

DOSWP: subroutine
K-series, *I/O Drivers*, 13-17
LADRV, *I/O Drivers*, 12-14

DOUT: subroutine (K-series), *I/O Drivers*, 13-18

LAMSKS: subroutine (LADRV), *I/O Drivers*, 12-18

SCOPE: subroutine (K-series), *I/O Drivers*, 13-24

Ival parameter

ADINP: subroutine (K-series), *I/O Drivers*, 13-8

CVADF: subroutine
K-series, *I/O Drivers*, 13-12
LADRV, *I/O Drivers*, 12-8

FLT16: subroutine
K-series, *I/O Drivers*, 13-19
LADRV, *I/O Drivers*, 12-15

Iwhen parameter

STPSWP: subroutine
K-series, *I/O Drivers*, 13-27
LADRV, *I/O Drivers*, 12-22

IWTBUF: subroutine

wait for buffer
K-series, *I/O Drivers*, 13-22
LADRV, *I/O Drivers*, 12-17

J

Job

holding, *Batch and Queue*, 2-1
modifying, *Batch and Queue*, 2-1
releasing, *Batch and Queue*, 2-1
removing from queue, *Batch and Queue*, 2-10

/JOB_END qualifier

STOP/PROCESSOR command, *System Management*, 3-33

/JOB_PAGE qualifier

PRINT command, *Batch and Queue*, 2-3

JOB command, *Batch and Queue*, 3-4

JOB command (cont'd.)

example, *Batch and Queue*, 3-5

format, *Batch and Queue*, 3-4

qualifiers, *Batch and Queue*, 3-4

/JOBCOUNT:n qualifier

SET QUEUE command, *Batch and Queue*, 2-19

/JOBCOUNT qualifier

PRINT command, *Batch and Queue*, 2-3

Jobname job switch

SUB command, *Batch and Queue*, 3-15

Jobname log file switch

SUB command, *Batch and Queue*, 3-15

Jobname parameter

DELETE command, *Batch and Queue*, 2-10

Jobname switch

PRI command, *Batch and Queue*, 2-3

QUE /LI command, *Batch and Queue*, 2-14

/JO switch

PRI command, *Batch and Queue*, 2-3

K

K.STS, *Writing I/O Driver*, 4-43

K command, *Debugging*, 2-8, 7-1; XDT, 2-13

ZAP utility, *Utilities*, 15-17

KDA50 disk controller, *I/O Drivers*, 4-4

/KDS, *Crash Dump Analyzer*, 2-4, 2-6

Kernel data space

dump, *Crash Dump Analyzer*, 3-44
switch

See /KDS

Kernel instruction space

dump, *Crash Dump Analyzer*, 3-44
switch

See /KIS

Kernel Mapping Register switch

See /KMR

Kernel stack dump, *Crash Dump Analyzer*, 3-1, 3-4

Key, *RMS-11 User's Guide*, 1-5, 1-19, 6-2;

RMS-11 Intro, 3-6

alternate, *RMS-11 User's Guide*, 1-7, 1-11;
RMS-11 Intro, 3-7

changeable, *RMS-11 Intro*, 3-10

characteristics, *RMS-11 User's Guide*, 6-8

changeable, *RMS-11 User's Guide*, 6-9

duplicates, *RMS-11 User's Guide*, 6-8

null, *RMS-11 User's Guide*, 6-10

data type, *RMS-11 User's Guide*, 6-3;

RMS-11 Intro, 3-7

- Key
 - data type (cont'd.)
 - 2-byte signed integer, *RMS-11 User's Guide*, 6-4
 - 4-byte signed integer, *RMS-11 User's Guide*, 6-4
 - 2-byte unsigned binary, *RMS-11 User's Guide*, 6-5
 - 4-byte unsigned binary, *RMS-11 User's Guide*, 6-5
 - packed decimal, *RMS-11 User's Guide*, 6-6
 - string, *RMS-11 User's Guide*, 6-3
 - duplicate, *RMS-11 Intro*, 3-10
 - match criterion, *RMS-11 Intro*, 3-12
 - null, *RMS-11 Intro*, 3-10
 - number of, *RMS-11 User's Guide*, 6-2
 - position, *RMS-11 User's Guide*, 6-7
 - primary, *RMS-11 User's Guide*, 1-7, 1-11; *RMS-11 Intro*, 3-7
 - RMSDES utility
 - numbering, *RMS-11 Utilities*, 2-28, 2-38
 - segment, *RMS-11 User's Guide*, 6-7; *RMS-11 Intro*, 3-10
 - size, *RMS-11 User's Guide*, 6-6
 - special (TTDRV), *I/O Drivers*, 2-69
 - table, *I/O Drivers*, 2-72, 2-73
- Key (RMSDES)
 - numbering, *RMS-11 Utilities*, 2-8
- KEY block, *RMS-11 Macro*, 5-71 to 5-72, 5-78, 5-94, 5-102; *RMS-11 Intro*, 4-8
- chaining to FAB, *RMS-11 Macro*, 2-13 to 2-14
- declaring, *RMS-11 Macro*, 2-8
- initializing, *RMS-11 Macro*, 2-10
- summary, *RMS-11 Macro*, 6-67
- Keyboard, *DCL*, 3-12 to 3-17
- keys table, *DCL*, 3-15 to 3-17
- Key buffer pool, *RMS-11 Macro*, 2-6
- Key information
 - displaying, *RMS-11 Utilities*, 5-4
- Key name
 - RMSCNV utility, *RMS-11 Utilities*, 4-10
- Key of reference
 - RMSCNV utility, *RMS-11 Utilities*, 4-10, 4-16
 - RMSIFL utility, *RMS-11 Utilities*, 3-8 to 3-9
- Keypad, *DCL*, 3-17 to 3-18
- alternate, *DCL*, 3-17 to 3-18
- Keypad (cont'd.)
 - editing
 - VT100-series terminal, *DCL*, 3-17
 - VT200-series terminal, *DCL*, 3-17
 - EDT editor, *Introduction*, 2-3, 2-4
 - Key record access, *RMS-11 Intro*, 3-12
 - to indexed files, *RMS-11 User's Guide*, 5-7, 5-9
 - to relative files, *RMS-11 User's Guide*, 4-1
 - to sequential files, *RMS-11 User's Guide*, 3-2
- Keyword
 - appending to file name, *MCR*, 1-2
 - forms, *MCR*, 1-2
 - function of, *MCR*, 1-2
 - negating, *MCR*, 1-2
 - position in command line, *MCR*, 1-2
 - recognition
 - transition table, *I/O Operations*, 7-9
 - specifying values for, *MCR*, 1-2
- Keyword argument, *MACRO-11*, 6-10
- order, *MACRO-11*, 6-11
- using DIGITAL Multinational Character Set, *MACRO-11*, 6-11
- Kill command
 - EDI editor, *Utilities*, 7-26
 - /KIS, *Crash Dump Analyzer*, 2-4, 2-6
 - KMC-11 auxiliary processor, *I/O Drivers*, 7-2
 - /KMR, *Crash Dump Analyzer*, 2-8, 2-9
 - /KNLD keyword
 - OPENREGISTER command, *MCR*, 3-128
 - /KNLI keyword
 - OPENREGISTER command, *MCR*, 3-128
 - /KNL keyword
 - OPENREGISTER command, *MCR*, 3-128
 - /KN switch
 - RMSCNV utility, *RMS-11 Utilities*, 4-10, 4-16
- Kount parameter
 - DIGO: subroutine (K-series), *I/O Drivers*, 13-14
 - GTHIST: subroutine (K-series), *I/O Drivers*, 13-20
- KRB, *Writing I/O Driver*, 1-4, 1-14
- access queue in the, *Writing I/O Driver*, 2-2, 2-16
- combined with SCB, *Writing I/O Driver*, 2-2, 4-48
- layout, *Writing I/O Driver*, 4-48
- composite arrangement, *Writing I/O Driver*, 2-16

KRB (cont'd.)

- configuration status in the, *Writing I/O Driver*, 2-2
- contiguous with SCB, *Writing I/O Driver*, 2-7, 4-3
- defining start of addresses, *Writing I/O Driver*, 4-3
- definition, *Writing I/O Driver*, 1-4
- details, *Writing I/O Driver*, 4-41, 4-43, 4-48
- format, *Writing I/O Driver*, 4-43, 4-48
- layout, *Writing I/O Driver*, 4-41
- overview, *Writing I/O Driver*, 2-2
- subsets, *Writing I/O Driver*, 1-14
- use in determining interrupting unit, *Writing I/O Driver*, 2-3
- KRB1, *Writing I/O Driver*, 1-14
- KRBDF\$, *Crash Dump Analyzer*, C-40
- /KR switch
 - RMSCNV utility, *RMS-11 Utilities*, 4-10, 4-16
 - RMSIFL utility, *RMS-11 Utilities*, 3-8 to 3-9
- K-series devices
 - pregenerated kit, *System Generation*, 5-49
- Ksubr parameter
 - CALLS macro (K-series), *I/O Drivers*, 13-29
- k variable, *Debugging*, 2-1; *XDT*, 2-10
- KW11-K dual programmable real-time clock, *I/O Drivers*, 13-3

L

- L.STS, *Writing I/O Driver*, 4-53
- LA100 DECprinter, *I/O Drivers*, 2-5
- LA120 DECwriter, *I/O Drivers*, 2-5
- LA120 terminal, *Introduction*, 1-1
- LA12 portable terminal, *I/O Drivers*, 2-4
- LA12 teletypewriter, *I/O Drivers*, 2-4
- LA180 DECprinter, *I/O Drivers*, 7-3
- LA180S DECprinter, *I/O Drivers*, 2-5
- LA210 letter printer, *I/O Drivers*, 2-6
- LA30 DECwriter, *I/O Drivers*, 2-5
- LA34 DECwriter, *I/O Drivers*, 2-5
- LA36 DECwriter, *I/O Drivers*, 2-5
- LA38 DECwriter, *I/O Drivers*, 2-5
- LA50 personal printer, *I/O Drivers*, 2-6
- LA75 personal printer, *I/O Drivers*, 2-6
- Label, *Batch and Queue*, 3-3; *Indirect*, 1-5
 - branching to, *Indirect*, 2-65
 - defining, *Indirect*, 2-37

Label (cont'd.)

- definition of, *MACRO-11*, 1-2
- direct-access, *Indirect*, 2-37
- if same as macro name, *MACRO-11*, 6-5
- maximum length, *MACRO-11*, 1-3
- not recommended on .MACRO directive, *MACRO-11*, 6-3
- on line containing .PSECT, .ASECT, or .CSECT, *MACRO-11*, 5-38
- terminated with colon (:), *MACRO-11*, 1-2
- terminated with double colon (::), *MACRO-11*, 1-2
- terminates local symbol block, *MACRO-11*, 2-10
- user label may confuse automatic local symbol generation in macro, *MACRO-11*, 6-10
- valid characters for, *MACRO-11*, 1-3
- valid formats, *MACRO-11*, 1-2
- Label block group, *Task Builder*, B-6 to B-11
- /LABEL keyword
 - MOUNT command, *MCR*, 3-120
- Labels (ICP), *Introduction*, 4-4
- Laboratory peripheral
 - K-series, *I/O Drivers*, 13-1
- Laboratory peripheral accelerator
 - See LADRV
- LADRV, *I/O Drivers*, 12-1
 - unloading, *I/O Drivers*, 12-31
- LAINIT microcode loader (LADRV), *I/O Drivers*, 12-30
- Lamskb parameter
 - LAMSKS: subroutine (LADRV), *I/O Drivers*, 12-18
 - SETIBF: subroutine
 - K-series, *I/O Drivers*, 13-26
 - LADRV, *I/O Drivers*, 12-21
- LAMSKS: subroutine
 - set masks buffer (LADRV), *I/O Drivers*, 12-18
- Language
 - assembly, *Program Development*, 1-4 to 1-6
 - See also *MACRO-11*
 - high-level
 - overlaying program, *Task Builder*, 3-44
 - programming, *DCL*, 6-1
 - source, *DCL*, 6-1
- Latency
 - definition, *System Management*, 14-2
- LA-type subsystems
 - SYSGEN question, *System Generation*, 3-56

- Layered product
 - correction files, *System Generation*, 2-26 to 2-27
- LB device
 - as system default, MCR, 2-6
 - default for BOOT, MCR, 3-30
 - pseudo device name, MCR, 2-10
 - required by LOAD command, MCR, 3-105
 - saving system, MCR, 3-147
- LBN, *RMS-11 User's Guide*, 8-11; *RMS-11 Intro*, 2-4; *Writing I/O Driver*, 1-17
 - See also Logical block number
 - See also Placement control
 - installed task, *System Management*, 5-20
 - relationship to TCB, *System Management*, 5-26
 - using to transfer data, *System Management*, 13-4
- Lbn parameter
 - device-specific function
 - DDDRV, *I/O Drivers*, 5-4
 - standard function
 - DDDRV, *I/O Drivers*, 5-3
- LBR command
 - See LBR utility
- LBR utility, *Program Development*, 1-9
 - See also LIBRARY command
 - adding a module to a library, *Program Development*, 6-9
 - combining library function, *Utilities*, 10-32
 - command line, *Utilities*, 10-10, A-17
 - default, *Utilities*, 10-11
 - creating macro library, *Program Development*, 6-2
 - creating object module library, *Program Development*, 6-5
 - efficiency, *Program Development*, 1-9
 - library file
 - creating, *Utilities*, 10-13
 - deleting, *Utilities*, 10-15
 - format, *Utilities*, 10-2
 - listing, *Utilities*, 10-22
 - module
 - inserting, *Utilities*, 10-21
 - replacing, *Utilities*, 10-24
 - spooling, *Utilities*, 10-29
 - listing information, *Program Development*, 6-10, 6-11
 - macro library, *Program Development*, 6-2, 6-3
 - messages, *Utilities*, 10-32
- LBR utility
 - messages (cont'd.)
 - diagnostic, *Utilities*, 10-33
 - fatal, *Utilities*, 10-34
 - module name requirement, *Error Logging*, 4-16
 - object module library, *Program Development*, 6-4 to 6-6
 - OLB file type, *Program Development*, 6-4
 - replacing a module in a library, *Program Development*, 6-10
 - restriction, *Utilities*, 10-10
 - switches
 - /CO, *Utilities*, 10-12
 - /CR, *Program Development*, 6-2, 6-5; *Utilities*, 10-13
 - /DE, *Utilities*, 10-15
 - /DF, *Utilities*, 10-16
 - /DG, *Utilities*, 10-17
 - /EP, *Utilities*, 10-18
 - /EX, *Utilities*, 10-19
 - /FU, *Program Development*, 6-11; *Utilities*, 10-22
 - /IN, *Program Development*, 6-9; *Utilities*, 10-20
 - /LE, *Program Development*, 6-11; *Utilities*, 10-22
 - /LI, *Utilities*, 10-22
 - /MH, *Utilities*, 10-23
 - /RP, *Program Development*, 6-9, 6-10; *Utilities*, 10-24
 - /SP, *Program Development*, 6-11; *Utilities*, 10-29
 - /SS, *Utilities*, 10-29
 - /SZ, *Utilities*, 10-30
 - universal library file
 - module
 - inserting, *Utilities*, 10-21
 - replacing, *Utilities*, 10-27
 - /LB switch, *Indirect*, 2-33; *Task Builder*, 10-26 to 10-27
 - DMP utility, *Utilities*, 5-6
 - TKB, *Program Development*, 6-7, 6-8, 7-7
- Lbuf parameter
 - ADSWP: subroutine
 - K-series, *I/O Drivers*, 13-9
 - LADRV, *I/O Drivers*, 12-3
 - DASWP: subroutine
 - K-series, *I/O Drivers*, 13-13
 - LADRV, *I/O Drivers*, 12-8

- Lbuf parameter (cont'd.)
 - DISWP: subroutine
 - K-series, *I/O Drivers*, 13-15
 - LADRV, *I/O Drivers*, 12-11
 - DOSWP: subroutine
 - K-series, *I/O Drivers*, 13-17
 - LADRV, *I/O Drivers*, 12-13
 - GTHIST: subroutine (K-series), *I/O Drivers*, 13-19
- LC argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
- LCBDF\$, *Crash Dump Analyzer*, C-42
- \$LCKPG (Lock page), *System Library*, 8-42
- LCL argument
 - for .PSECT, *MACRO-11*, 5-35
- LCM argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
- L command, *Debugging*, 2-8, 6-4; *XTD*, 2-14
- /LC switch
 - DMP utility, *Utilities*, 5-6
- LD\$xx symbol, *Writing I/O Driver*, 4-9
- Ldelay parameter
 - ADSWP: subroutine
 - K-series, *I/O Drivers*, 13-10
 - LADRV, *I/O Drivers*, 12-5
 - DASWP: subroutine
 - K-series, *I/O Drivers*, 13-14
 - LADRV, *I/O Drivers*, 12-10
 - DISWP: subroutine
 - K-series, *I/O Drivers*, 13-16
 - LADRV, *I/O Drivers*, 12-12
 - DOSWP: subroutine
 - K-series, *I/O Drivers*, 13-17
 - LADRV, *I/O Drivers*, 12-14
- LEAVE statement
 - CFL, *Error Logging*, 5-35
- LE conditional assembly test, *MACRO-11*, 5-45
- Left angle bracket (<)
 - argument delimiter, *MACRO-11*, 2-3
 - invalid as .ASCII string delimiter, *MACRO-11*, 5-20
 - invalid as .ASCIZ string delimiter, *MACRO-11*, 5-21
 - invalid as .IDENT string delimiter, *MACRO-11*, 5-11
 - invalid as .RAD50 string delimiter, *MACRO-11*, 5-22
 - spaces may increase readability of arguments, *MACRO-11*, 6-6
 - special character in *MACRO-11*, *MACRO-11*, 2-2
- Left angle bracket (<) (cont'd.)
 - to enclose expressions, *MACRO-11*, 2-14
- Left angle bracket command (<), *Debugging*, 2-5, 4-6; *XTD*, 2-11
- Left parenthesis
 - special character in *MACRO-11*, *MACRO-11*, 2-2
- Legal function mask
 - details, *Writing I/O Driver*, 4-19
- /LE job switch
 - QUE /MOD command, *Batch and Queue*, 2-19
- LENGTH
 - CFL named variable, *Error Logging*, 5-9
- /LENGTH job qualifier
 - SET QUEUE command, *Batch and Queue*, 2-19
- /LENGTH qualifier
 - BRU utility, *Utilities*, 3-19
 - PRINT command, *Batch and Queue*, 2-3
- Less-than binary operator
 - CFL expression, *Error Logging*, 5-12
- Less-than-or-equal binary operator
 - CFL expression, *Error Logging*, 5-12
- /LE switch
 - LBR utility, *Program Development*, 6-11; *Utilities*, 10-22
 - PRI command, *Batch and Queue*, 2-3
- Level
 - indexed files, *RMS-11 User's Guide*, 5-4
 - data, *RMS-11 User's Guide*, 5-5
 - level 0, *RMS-11 User's Guide*, 5-5
- LEVEL1_INDEX_AREA
 - RMSDES utility, *RMS-11 Utilities*, 2-41
- /LI:B switch
 - QUE /LI command, *Batch and Queue*, 2-14
- /LI:P switch
 - QUE /LI command, *Batch and Queue*, 2-14
- Librarian Utility Program
 - See LBR utility
- Library, *DCL*, 6-32 to 6-34
 - cluster
 - See also Cluster library
 - clustered, *RMS-11 User's Guide*, 8-7 to 8-9
 - default
 - specifying, *Task Builder*, 10-16
 - default system search, *Program Development*, 4-2
 - DIGITAL-supplied, *Program Development*, 1-10
 - directory, *MCR*, 3-142

Library

- directory (cont'd.)
 - as default for INSTALL command, MCR, 3-95
 - as default for RUN command, MCR, 3-142
- extending, *Task Builder*, 10-18
- macro, *Program Development*, 6-2 to 6-3; DCL, 6-33
- maintenance, *Program Development*, 6-10
- object module, *RMS-11 User's Guide*, 8-1; *Program Development*, 6-4 to 6-6; DCL, 6-33
 - See also Object module library
- designating in TKB, *Program Development*, 6-6 to 6-8
- specifying for task, *Task Builder*, 10-26, 11-28, 11-38
- using to resolve undefined global symbols, *Program Development*, 6-7, 6-8
- obtaining information about a user, *Program Development*, 6-10, 6-11
- OTS, *Program Development*, 7-2
- resident, *RMS-11 User's Guide*, 8-1, 8-8; *Task Builder*, 5-1
 - See also Resident library
- FCS types, *Task Builder*, 5-62
- installing, MCR, 3-94; *System Management*, 5-26
- linking, *Task Builder*, 5-65 to 5-67
- MACRO-11 example, *Task Builder*, 5-36 to 5-45
- RMSRES, *RMS-11 User's Guide*, 8-6, 8-9
- search
 - MACRO-11, *Program Development*, 1-5, 1-10, 2-6
 - TKB, *Program Development*, 1-11
- shared
 - See also Shared library
- building, *Task Builder*, 10-28
- specifying, *Task Builder*, 5-4
- squeezing, *Program Development*, 6-3
- supervisor mode, *RMS-11 User's Guide*, 8-9
 - See also Supervisor-mode library
- building with relevant option, *Task Builder*, 8-7
- mapping, *Task Builder*, 8-2
- overlay restriction, *Task Builder*, 8-25
- universal, DCL, 6-33

- LIBRARY command, *Program Development*, 1-9; DCL, 6-32 to 6-56, 9-22
 - See also LBR utility
- LIBRARY/COMPRESS, DCL, 6-35 to 6-36, 9-22
- LIBRARY/CREATE, DCL, 6-37 to 6-39, 9-22
- LIBRARY/DELETE, DCL, 6-40, 9-23
- LIBRARY/EXTRACT, DCL, 6-41 to 6-42, 9-23
- LIBRARY/INSERT, DCL, 6-43 to 6-44, 9-23
- LIBRARY/LIST, DCL, 6-45 to 6-48, 9-23
- LIBRARY/REMOVE, DCL, 6-49, 9-24
- LIBRARY/REPLACE, DCL, 6-50 to 6-51, 9-24
- qualifiers
 - /COMPRESS, *Program Development*, 6-10
 - /CREATE, *Program Development*, 6-2, 6-4
 - /FULL, *Program Development*, 6-10
 - /INSERT, *Program Development*, 6-9
 - /LIST, *Program Development*, 6-10
 - /MACRO, *Program Development*, 6-2
 - /NAMES, *Program Development*, 6-10
 - /OBJECT, *Program Development*, 6-2, 6-4
 - /REPLACE, *Program Development*, 6-10
- LIBRARY directive, MACRO-11, 5-49
 - default device and file type, MACRO-11, 5-49
 - limit on number of files, MACRO-11, 5-50
 - relationship to .ENABL MCL, MACRO-11, 5-50
 - relationship to .MCALL, MACRO-11, 5-49, 6-21
 - restriction on RT-11 systems, MACRO-11, 5-50
 - summary, MACRO-11, 5-2
- Library directory, DCL, 7-28 to 7-31
 - displaying, DCL, 8-11
 - setting, DCL, 8-10
- Library file
 - See LBR utility
- /LIBRARY qualifier, *Task Builder*, 11-38
- LINK command, *Program Development*, 6-7, 6-8
- MACRO command, *Program Development*, 6-3

- Library routine
 - communicating between, *System Library*, 1-1 to 1-2
 - placing, *System Library*, 1-2
 - searching, *System Library*, 1-2
 - storing, *System Library*, 1-2
- LIBR option, *Task Builder*, 5-16, 12-12, 12-23
- <LIBUIC> symbol, *Indirect*, 2-25
- /LIBUIC keyword
 - SET command, MCR, 3-170
 - SET command (VMR), *System Management*, 5-56
- /LIMIT, *Crash Dump Analyzer*, 2-8, 2-9
- .LIMIT directive, MACRO-11, 5-32
 - summary, MACRO-11, 5-2
- /LIMITING qualifier
 - SET ERROR_LOG command, *Error Logging*, 2-9
 - See also /LIMIT switch
 - START/ERROR_LOG command, *Error Logging*, 2-3
 - See also /LOG switch
- Limit register
 - high memory, *Debugging*, 5-3, 6-2
 - low memory, *Debugging*, 5-3, 6-2
- /-LIMIT switch
 - ELI, *Error Logging*, 2-9
 - See also /NOLIMITING qualifier
- /LIMIT switch
 - ELI, *Error Logging*, 2-9
 - See also /LIMITING qualifier
- /LIM switch
 - DMP utility, *Utilities*, 5-6
- Line
 - dial-up, MCR, 3-181
 - local, MCR, 3-182
 - displaying, MCR, 3-182
 - remote, MCR, 3-157, 3-181
- Line Change command
 - EDI editor, *Utilities*, 7-26
- Line continuation, DCL, 1-20
- Line definition
 - XEDRV, *I/O Drivers*, 10-27
- Line feed
 - cannot follow single or double quotation mark, MACRO-11, 5-19
 - CTRL/R (TTDRV), *I/O Drivers*, 2-71
- Line-feed character
 - record attribute, *I/O Operations*, 3-9
- LINE FEED command, *Debugging*, 2-5, 4-4; XDT, 2-10
- Line frequency
 - SYSGEN question, *System Generation*, 3-34
- LINE function
 - EDT editor, *Introduction*, 2-7
- Line interface
 - DL11/DLV11
 - SYSGEN question, *System Generation*, 3-56
- Line mode
 - EDT editor, *Introduction*, 2-5, 2-11
- Line printer controllers
 - LA180
 - SYSGEN question, *System Generation*, 3-52
 - LP11
 - SYSGEN question, *System Generation*, 3-52
 - LS11
 - SYSGEN question, *System Generation*, 3-52
 - LV11
 - SYSGEN question, *System Generation*, 3-52
- LP-type
 - SYSGEN question, *System Generation*, 3-52
 - physical feature list, *I/O Drivers*, 7-1
- Line printer driver
 - See LPDRV
- /LINES, *Crash Dump Analyzer*, 2-8, 2-9
- /LINES keyword
 - SET command, MCR, 3-170
 - SET command (VMR), *System Management*, 5-56
- Lines per page switch
 - See /LINES
- Line terminator, DCL, 3-13
- Line Text Editor
 - See EDI editor
- LINK command, *Debugging*, 1-3; *Program Development*, 1-6, 4-1; *System Management*, 4-19; DCL, 6-5, 6-7 to 6-31, 9-24 to 9-26; *Introduction*, 5-3, 5-6
 - See also TKB
 - command line, *Task Builder*, 1-4
 - cross-reference listing, *Program Development*, 4-5
 - /DEBUG qualifier, *Debugging*, 8-1
 - error messages, *Program Development*, 4-2

- LINK command (cont'd.)
 - example, *System Management*, 4-19
 - fast version, *Program Development*, 4-4
 - generating standard map, *Program Development*, 4-5
 - including ODT in task, *Program Development*, 5-1
 - indirect command file
 - saving, *Task Builder*, 11-55
 - option, *DCL*, 6-26 to 6-28
 - qualifiers, *Task Builder*, 11-1 to 11-71
 - abbreviating, *Task Builder*, 1-8
 - /CROSS_REFERENCE, *Program Development*, 4-5
 - /DEBUG, *Program Development*, 5-1
 - /FAST, *Program Development*, 4-4
 - /INCLUDE, *Program Development*, 6-6, 6-8
 - /LIBRARY, *Program Development*, 6-7, 6-8
 - /MAP, *Program Development*, 6-6
 - /POSTMORTEM, *Program Development*, 5-9
 - summary, *Task Builder*, 11-3 to 11-9
 - /SYSTEM_LIBRARY_DISPLAY, *Program Development*, 4-7
 - /TASK, *Program Development*, 6-6, 6-7, 6-8
 - specifying a debugger, *Debugging*, 8-1
- Linking
 - discussion, *MACRO-11*, 3-1
- LIST command, *System Management*, 4-20
 - example, *System Management*, 4-21
 - format, *System Management*, 4-20
 - storing CON command sequence, *System Management*, 4-20
- List command
 - EDI editor, *Program Development*, 2-12
- .LIST directive, *MACRO-11*, 5-6
 - overriding with command line options, *MACRO-11*, 5-8
 - summary, *MACRO-11*, 5-2
 - table of arguments, *MACRO-11*, 5-7
- Listing
 - assembly, *Program Development*, 3-4, 3-5
 - control, *Program Development*, 1-5, 2-6
 - directory, *Program Development*, 3-9
 - examining at a terminal, *Program Development*, 3-6, 7-4
 - FORTTRAN IV, *Program Development*, 7-5
 - global cross-reference, *Program Development*, 4-5, 4-6
- Listing (cont'd.)
 - printing, *Program Development*, 3-8
 - sample of cross-reference, *MACRO-11*, H-1
 - spooling, *Program Development*, 3-8
 - use in debugging, *Program Development*, 5-4
- Listing file
 - FLX utility, *Utilities*, 8-7
 - PIP utility, *Utilities*, 12-18
- List on Pseudo Device command
 - EDI editor, *Utilities*, 7-26
- List on Terminal command
 - EDI editor, *Utilities*, 7-27
- LIST option
 - ACNT, *System Management*, 2-10
- /LIST qualifier
 - FORTTRAN command, *Program Development*, 7-3, 7-7
 - LIBRARY command, *Program Development*, 6-10
 - MACRO command, *Program Development*, 3-1, 3-4, 3-7, 6-3
- LIST statement
 - CFL, *Error Logging*, 5-39
- /LIST switch
 - BAD utility
 - preparing for Shadow Recording, *System Management*, 16-2
- .LIST TTM directive, *Program Development*, 2-6
- /LI switch, *Task Builder*, 10-28
 - BAD utility, *Utilities*, 2-4
 - CMP utility, *Utilities*, 4-3
 - FLX utility, *Utilities*, 8-8
 - LBR utility, *Utilities*, 10-22
 - PIP utility, *Program Development*, 3-9; *Utilities*, 12-18
 - subswitches
 - /BR, *Utilities*, 12-19
 - /FU, *Utilities*, 12-19
 - /TB, *Utilities*, 12-19
 - QUE /LI command, *Batch and Queue*, 2-14
 - VFY utility, *Utilities*, 14-5
 - ZAP utility, *Utilities*, 15-2
- Literal declaration
 - compile-time, *Error Logging*, 4-11
- LITERAL statement
 - CFL, *Error Logging*, 5-32
- Literal value
 - CFL, *Error Logging*, 5-9
- LN01 laser printer, *I/O Drivers*, 7-3
- LN03 laser printer, *I/O Drivers*, 2-6

- LN03 PLUS laser printer, *I/O Drivers*, 2-6
- LNMDf\$, *Crash Dump Analyzer*, C-43
- /LN switch
 - CMP utility, *Utilities*, 4-3
- LOA command
 - See also LOAD command
 - VMR
 - definition, *System Management*, 5-29
 - examples, *System Management*, 5-31
 - format, *System Management*, 5-29
 - keywords
 - /CTB, *System Management*, 5-29
 - /PAR, *System Management*, 5-30
 - /SIZE, *System Management*, 5-30
 - /VEC, *System Management*, 5-30
 - notes, *System Management*, 5-30
 - parameters, *System Management*, 5-29
- Loadable database
 - See Database
- Loadable driver
 - See Driver
 - SYSGEN question, *System Generation*, 3-26
- LOAD command, MCR, 3-103; *System Management*, 8-16 ; *Writing I/O Driver*, 1-23, 1-24, 5-6
 - allowances, *Writing I/O Driver*, 1-7
 - brief description, MCR, 1-5
 - Executive operation for driver, *Writing I/O Driver*, 5-11
 - format, MCR, 3-103; *System Management*, 8-16
 - keywords
 - /CTB, MCR, 3-103
 - /EXP, MCR, 3-104; *System Management*, 8-16
 - /FLAGS, MCR, 3-104
 - /HIGH, MCR, 3-104
 - /PAR, MCR, 3-104
 - /SIZE, MCR, 3-104; *System Management*, 8-16
 - /VEC, MCR, 3-104
 - loading CODRV driver, *System Management*, 9-3
 - operation, *Writing I/O Driver*, 5-11
 - overview, *Writing I/O Driver*, 1-23
 - parameters, MCR, 3-103
 - pool space requirements, MCR, 3-105
 - use of /CTB, *Writing I/O Driver*, 5-14
 - VMR
 - See LOA command
- LOAD module, *Task Builder*, 4-19, 5-62
- \$LOAD routine, *Task Builder*, 4-8, 4-9
- Load sharing, *Writing I/O Driver*, 1-12
 - <LOCAL> symbol, *Indirect*, 2-11
- Local data block, *Program Development*, 2-8
- Local event flag
 - reading, *Executive*, 5-184
- Local logical assignment, MCR, 3-14
- Local macro definitions, *Program Development*, 2-7
- Local symbol, *Program Development*, 1-4, 1-5
 - automatic generation limitations, *MACRO-11*, 6-10
 - cautions with automatic generation, *MACRO-11*, 6-10
 - creating automatically in macros, *MACRO-11*, 6-9
 - definition, *MACRO-11*, 2-9
 - deleting definition, *Indirect*, 2-59
 - FDB macro, *I/O Operations*, 2-25
 - generate automatically in macro expansion, *MACRO-11*, 2-10
 - range of valid values, *MACRO-11*, 6-9
 - range of values, *MACRO-11*, 2-9
 - uses, *MACRO-11*, 2-10
- Local symbol block
 - ways to delimit, *MACRO-11*, 2-9
- Local symbol definitions, *Program Development*, 2-7
- Local work variable
 - user-written module, *Error Logging*, 4-31
- LOC argument
 - for .LIST/.NLIST, *MACRO-11*, 5-8
- Locate command
 - EDI editor, *Program Development*, 2-13, 2-17, 7-4, 7-5, 7-7; *Utilities*, 7-27
- Locate mode, *RMS-11 Intro*, 4-6; *I/O Operations*, 1-10, 1-11, 2-10
 - file processing, *I/O Operations*, 3-26
 - FSR block buffer, *I/O Operations*, 3-26
 - GET\$ macro, *I/O Operations*, 3-18, 3-21
 - indexed files, *RMS-11 User's Guide*, 7-7
 - PUT\$ macro, *I/O Operations*, 3-24, 3-27
 - record attribute, *I/O Operations*, 3-9
 - relative files, *RMS-11 User's Guide*, 4-13
 - sequential files, *RMS-11 User's Guide*, 3-14
 - task record buffer, *I/O Operations*, 3-26
- Location
 - absolute, *Debugging*, 2-5, 4-4; *XDT*, 2-11
 - altering, *Debugging*, 4-1
 - branch, *Debugging*, 4-5
 - closing, *Debugging*, 4-2
 - displaying, *Debugging*, 4-1
 - format, *Debugging*, 4-1

- Location (cont'd.)
 - indicator, *Debugging*, 7-3
 - opening, *Debugging*, 4-1
 - ASCII, *Debugging*, 4-6
 - branch offset, *Debugging*, 4-5
 - byte, *Debugging*, 4-2
 - next sequential, *Debugging*, 4-4
 - preceding, *Debugging*, 4-4
 - Radix-50, *Debugging*, 4-7
 - word, *Debugging*, 4-2
 - PC-relative, *Debugging*, 4-5
 - reopening last opened, *Debugging*, 4-3
 - returning from, *Debugging*, 4-6
 - RMSDEF utility, *RMS-11 Utilities*, A-14
- Location addressing
 - ZAP utility, *Utilities*, 15-7
- Location counter, *Program Development*, 1-6
 - See also Current location counter
 - use in debugging, *Program Development*, 5-4
- Location indicator
 - See Register indicator
- /LOC keyword
 - HELP command, *MCR*, 3-73
- /LOCK keyword
 - DISMOUNT command, *MCR*, 3-61
 - Nounload option, *MCR*, 3-61
 - Unload option, *MCR*, 3-61
 - Virtual option, *MCR*, 3-62
 - MOUNT command, *MCR*, 3-113, 3-120
 - Nounload option, *MCR*, 3-113, 3-121
 - Unload option, *MCR*, 3-114, 3-121
 - Virtual option, *MCR*, 3-114, 3-121
- LOG.ERR, *Error Logging*, 2-3
 - error log file, *Error Logging*, 2-5
 - RPT input file, *Error Logging*, 3-3
- LOG.ERR file, *MCR*, 3-200
- LOG command
 - See LOGIN command
- <LOGDEV> symbol, *Indirect*, 2-25
- \$LOGGER Executive routine, *Error Logging*, 4-24
- Log file, *Batch and Queue*, 3-1
 - Console Logging
 - displaying assignment, *System Management*, 9-5
 - enabling, *System Management*, 9-6
 - reassigning, *System Management*, 9-6
- LOGFILE command
 - IOX (cont'd.)
 - default action, *System Management*, 12-34
 - naming log file, *System Management*, 12-34
 - summary reports, *System Management*, 12-34
 - /LOGFILE option
 - SET /COLOG command, *System Management*, 9-6
 - /LOGFILE qualifier
 - SUBMIT command, *Batch and Queue*, 3-15
 - Logging in, *Introduction*, 1-5 to 1-6, 1-6
 - Logical/physical association, *I/O Drivers*, 1-2
 - Logical address space, *Task Builder*, 2-15
 - Logical AND, *System Management*, 18-29
 - Logical AND binary operator
 - CFL expression, *Error Logging*, 5-11
 - Logical AND operator
 - summary, *MACRO-11*, 2-4
 - Logical assignment, *MCR*, 3-14 to 3-23, 3-53 to 3-59
 - assigning, *MCR*, 3-18; *System Management*, 5-9
 - deleting, *MCR*, 3-15, 3-18, 3-20, 3-23; *System Management*, 5-10
 - displaying, *MCR*, 3-21; *System Management*, 5-10
 - global, *MCR*, 2-11, 3-14
 - group, *MCR*, 2-11, 3-14
 - local, *MCR*, 2-11, 3-14
 - logical device table, *MCR*, 2-12
 - login, *MCR*, 2-11, 3-14
 - system, *MCR*, 3-14
 - task, *MCR*, 2-11, 3-14
 - Logical block, *RMS-11 Intro*, 2-3; *I/O Operations*, 5-2
 - file device, *I/O Operations*, 1-7
 - reading (TTDRV), *I/O Drivers*, 2-45
 - Logical block number, *MCR*, 3-88, 3-94, 3-148
 - See also LBN
- LOGICAL data type
 - CFL, *Error Logging*, 5-4
- Logical device, *DCL*, 5-6, 5-9 to 5-10, 5-24 to 5-30, 5-34 to 5-36
 - assigning, *DCL*, 5-9, 5-24 to 5-30
 - deleting, *DCL*, 5-34 to 5-36
 - displaying, *DCL*, 5-130 to 5-133

- Logical device assignment, *Crash Dump Analyzer*, 3-14 ; *Indirect*, 2-96; MCR, 2-11, 3-14 to 3-23
 - assigning, MCR, 3-15
 - device name tables, MCR, 3-15
- Logical device name, *Crash Dump Analyzer*, 3-14; MCR, 2-11; DCL, 5-9 to 5-10
 - assigning, MCR, 3-14
 - syntax, MCR, 2-11, 3-15
- Logical end-of-file directive, *Indirect*, 2-73
- Logical I/O, *I/O Drivers*, 1-2
 - definition, *System Management*, 15-6
- Logical inclusive OR operator
 - summary, MACRO-11, 2-4
- Logical name, *I/O Operations*, 1-19; DCL, 5-6
 - assigning, MCR, 3-22; DCL, 5-24 to 5-30
 - creating, *Executive*, 5-36
 - defining, DCL, 5-37 to 5-40
 - deleting, *Executive*, 5-65; DCL, 5-34 to 5-36
 - described, DCL, 5-14 to 5-17
 - displaying, DCL, 5-15, 5-130 to 5-133
 - extended support for, MCR, 2-11
 - format, DCL, 5-15
 - specifying, *I/O Operations*, 1-20
 - translating, *Executive*, 5-286
 - iteratively, *Executive*, 5-186
 - translation, *I/O Operations*, 4-8
 - ASSIGN command, *I/O Operations*, 4-9
 - expanding file specification string, *I/O Operations*, 4-10
 - FDB extension, *I/O Operations*, 4-14
 - iterative, *I/O Operations*, 4-9
 - merging file specification, *I/O Operations*, 4-10
 - name expansion
 - .EXPLG module, *I/O Operations*, 4-15
 - parse file specification, *I/O Operations*, 4-10
 - .PARSE routine
 - device and unit, *I/O Operations*, 4-12
 - process, *I/O Operations*, 4-10
 - .PRSDV routine, *I/O Operations*, 4-15
 - translation, DCL, 5-16
 - use, *I/O Operations*, 1-20
 - Logical name assignment, MCR, 3-14, 3-15, 3-53 to 3-59
 - assigning, MCR, 3-53, 3-54
 - Logical name assignment (cont'd.)
 - deleting, MCR, 3-54, 3-55
 - displaying, MCR, 3-54, 3-56, 3-58
 - expanding, *Indirect*, 2-99
 - global, MCR, 3-14, 3-53
 - group, MCR, 3-14, 3-53
 - local, MCR, 3-14
 - login, MCR, 3-14
 - tables, MCR, 3-15 to 3-16
 - task, MCR, 3-14
 - translation, MCR, 3-53
 - using, *Indirect*, 2-2
 - Logical name support
 - SYSGEN question, *System Generation*, 3-25
 - Logical name table, DCL, 5-14
 - Logical NOT unary prefix operator
 - CFL expression, *Error Logging*, 5-11
 - Logical operator, *Indirect*, 2-26, 2-29
 - CFL expression, *Error Logging*, 5-11, 5-16
 - LOGICAL option, *System Management*, 15-6
 - default extent size for, *System Management*, 15-6
 - MOUNT /CACHE command, MCR, 3-111
 - SET /CACHE command, MCR, 3-160
 - Logical OR
 - changing mode (XEDRV), *I/O Drivers*, 10-24
 - Logical OR binary operator
 - CFL expression, *Error Logging*, 5-11
 - Logical SHIFT binary operator
 - CFL expression, *Error Logging*, 5-13
 - Logical symbol, *Indirect*, 2-9
 - defining, *Indirect*, 2-39
 - setting, *Indirect*, 2-87
 - testing, *Indirect*, 2-68, 2-70
 - Logical test, *Indirect*, 2-66
 - Logical unit, *I/O Drivers*, 1-2
 - Logical unit number
 - See LUN
 - LOGICAL UNIT NUMBERS command, MCR, 3-107
 - See also LUN command
 - brief description, MCR, 1-6
 - example, MCR, 3-107
 - format, MCR, 3-107
 - Logical Unit Table
 - See LUT
 - Logical XOR binary operator
 - CFL expression, *Error Logging*, 5-11
 - Login
 - default logical device, MCR, 3-67

- Login (cont'd.)
 - default logical directory, *MCR*, 3-67
 - logical assignment, *MCR*, 3-14
 - UIC, *MCR*, 2-3
- LOGIN.CMD file
 - function, *System Management*, 1-10
 - pregenerated kit, *System Generation*, 5-38
- LOGIN.TXT file
 - description, *System Management*, 1-10
- LOGIN command, *MCR*, 3-67; *DCL*, 3-4 to 3-7, 9-26; *Introduction*, 1-5 to 1-6
 - brief description, *MCR*, 1-7
 - error messages, *MCR*, 3-67
 - examples, *MCR*, 3-70
 - password, *DCL*, 3-4
 - UIC, *DCL*, 3-4
- Login information file
 - See LOGIN.TXT file
- /LOGIN keyword
 - ASSIGN command, *MCR*, 3-19, 3-20
- Login message file
 - BATCH.TXT, *System Generation*, 4-5
 - LOGIN.TXT, *System Generation*, 4-5
- Login messages
 - suppressing, *Batch and Queue*, 3-4
- Login Transaction Block, *System Management*, 10-38
- /LOG keyword
 - DEVICES command, *MCR*, 3-50
- Loglabel, *Batch and Queue*, 3-4
- /LOGON keyword
 - SET command, *MCR*, 3-171
 - SET command (VMR), *System Management*, 5-56
- LOGOUT.CMD file
 - function, *System Management*, 1-10
 - pregenerated kit, *System Generation*, 5-39
- LOGOUT command, *DCL*, 3-8 to 3-9, 5-14, 7-20, 9-26; *Introduction*, 1-19
- /LOG subkeyword
 - COMMAND LINE INTERPRETER command, *MCR*, 3-43
- /LOG switch
 - ELI, *Error Logging*, 2-3, 2-5, 2-10
 - See also START/ERROR_LOG command
 - error limiting, *Error Logging*, 2-3, 2-5
 - file naming, *Error Logging*, 2-10
 - starting logging, *Error Logging*, 2-5
 - subswitches, *Error Logging*, 2-5, 2-6, 2-7, 2-13
- LOGTST Executive routine, *Error Logging*, 4-25
- <LOGUIC> symbol, *Indirect*, 2-25
- %LOK\$BYTE
 - CFL look-ahead function, *Error Logging*, 5-21
- %LOK\$LENGTH
 - CFL look-ahead function, *Error Logging*, 5-22
- %LOK\$LONGWORD
 - CFL look-ahead function, *Error Logging*, 5-21
- %LOK\$WORD
 - CFL look-ahead function, *Error Logging*, 5-21
- /LO log file switch
 - SUB command, *Batch and Queue*, 3-15
- /LONG qualifier, *Task Builder*, 11-39
- LONGWORD numeric data type
 - CFL, *Error Logging*, 5-5
- LONGWORD value
 - equivalent string, *Error Logging*, 5-4
- Loop, *Debugging*, 3-4
- LOOPBACK command
 - IOX, *System Management*, 12-35
 - loopback connector, *System Management*, 12-35
 - restriction, *System Management*, 12-35
- /LO switch, *Indirect*, 2-4, 2-35
- RMSCNV utility, *RMS-11 Utilities*, 4-10
- RMSIFL utility, *RMS-11 Utilities*, 3-6
- VFY utility, *Utilities*, 14-5
- /LO switch (Indirect), *Indirect*, 2-4, 2-35
- Low core memory
 - dump, *Crash Dump Analyzer*, 3-1, 3-4
 - labels, *Crash Dump Analyzer*, 3-5
- Lowercase mode, *Indirect*, 2-54
- /LOWERCASE qualifier
 - INITIALIZE/PROCESSOR command, *System Management*, 3-23
 - PRINT command, *Batch and Queue*, 2-3
 - SET QUEUE command, *Batch and Queue*, 2-19
- /LOWER keyword
 - SET command, *MCR*, 3-171
 - SET command (VMR), *System Management*, 5-57
- /LOW job switch
 - QUE /MOD command, *Batch and Queue*, 2-19
- Low limit register
 - See L register

- Low pool condition, *System Management*, 8-3, 8-4
- /LOW switch
 - PRI command, *Batch and Queue*, 2-3
 - QUE /SP command, *System Management*, 3-23
- LP11 line printer, *I/O Drivers*, 7-2
- LPA11-K laboratory subsystem, *Writing I/O Driver*, 1-14
- LPA11-K laboratory subsystems
 - pregenerated kit, *System Generation*, 5-49
 - SYSGEN question, *System Generation*, 3-56
- LPA11 laboratory subsystem
 - 22-bit addressing, *I/O Drivers*, 12-31, 12-32
 - data transfer start (LADRV), *I/O Drivers*, 12-26
 - data transfer stop (LADRV), *I/O Drivers*, 12-27
 - initializing, *I/O Drivers*, 12-26
 - IO.STA function (LADRV), *I/O Drivers*, 12-26
 - IO.STP function (LADRV), *I/O Drivers*, 12-27
 - sample programs, *I/O Drivers*, 12-32 to 12-37
- LPDRV, *I/O Drivers*, 7-1
 - programming hint, *I/O Drivers*, 7-6
- LPP, *System Management*, 3-2
 - source files, *System Management*, 3-2
- LPPBLD.CMD build file
 - modifying forms, *System Management*, 3-21
- LQP02 letter-quality printer, *I/O Drivers*, 2-5
- LQP03 letter-quality printer, *I/O Drivers*, 2-6
- LRDRV
 - device-specific QIO\$
 - transmitting, *I/O Drivers*, 11-3
 - message
 - receiving, *I/O Drivers*, 11-11
 - rejecting, *I/O Drivers*, 11-10
 - transmitting, *I/O Drivers*, 11-5
 - standard function
 - transmitting, *I/O Drivers*, 11-3
 - timeslice constraints
 - transmitting, *I/O Drivers*, 11-6
- L register, *Debugging*, 2-6, 5-3, 6-2; *XDT*, 2-11
- /LRU keyword
 - HOME command, *MCR*, 3-80
 - INITVOLUME command, *MCR*, 3-89
 - MOU command, *System Management*, 1-8
 - MOUNT command, *MCR*, 3-114
- LS11 line printer, *I/O Drivers*, 7-2
- LSB argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
- LST file type, *Program Development*, 3-4, 6-11, 7-3, 7-4
- LST module, *Error Logging*, 4-2
- Lsubr parameter
 - CALLS calling macro (LADRV), *I/O Drivers*, 12-24
- LT conditional assembly test, *MACRO-11*, 5-45
- LUN, *I/O Drivers*, 1-2; *MCR*, 3-31; *DCL*, 5-6, 5-8 to 5-9, 7-42 to 7-43, 7-68 to 7-69
- See also LOGICAL UNIT NUMBERS command
- assigning, *Executive*, 5-12, 5-17; *I/O Drivers*, 1-17; *MCR*, 2-9
- assigning to physical device, *Task Builder*, 12-8
- assigning with .ASLUN routine, *I/O Operations*, 4-16
- assignment
 - ALUN\$ directive, *I/O Drivers*, 1-4
 - ASSIGN command, *I/O Drivers*, 1-4
 - change, *I/O Drivers*, 1-4
 - dynamic change, *I/O Drivers*, 1-4
 - REASSIGN command, *I/O Drivers*, 1-4
- calculation, *Error Logging*, 4-26
- default by TKB, *Program Development*, 4-5
- definition of, *MCR*, 2-9
- get information, *I/O Drivers*, 1-21
 - CRDRV, *I/O Drivers*, 9-1
 - DDDRV, *I/O Drivers*, 5-2
 - disk driver, *I/O Drivers*, 4-6
 - LADRV, *I/O Drivers*, 12-2
 - LPDRV, *I/O Drivers*, 7-3
 - LRDRV
 - receiving, *I/O Drivers*, 11-3
 - transmitting, *I/O Drivers*, 11-2
 - tape driver, *I/O Drivers*, 6-5
 - UNIBUS switch driver, *I/O Drivers*, 14-2
 - VTDRV, *I/O Drivers*, 3-1
- identical
 - IO.DET/IO.ATT, *I/O Drivers*, 1-29
- information table, *I/O Drivers*, 1-22
- logical/physical association, *I/O Drivers*, 1-17
- number, *I/O Drivers*, 1-7
- ODT
 - assigning, *Debugging*, 1-4

LUN (cont'd.)

- physical
 - logical, *I/O Drivers*, 1-21
- QIO\$ basic syntax, *I/O Drivers*, 1-5
- REASSIGN command, MCR, 3-133
- reassigning, *I/O Drivers*, 1-3; MCR, 3-133
- redirection
 - ASSIGN command, *I/O Drivers*, 1-3
 - specifying number of, *Task Builder*, 12-40
 - table, *I/O Drivers*, 1-3
- TTDRV
 - get information, *I/O Drivers*, 2-9
 - valid number, *I/O Drivers*, 1-3
- LUN command
 - See also LOGICAL UNIT NUMBERS command
 - VMR, *System Management*, 5-32
 - definition, *System Management*, 5-32
 - example, *System Management*, 5-32
 - format, *System Management*, 5-32
 - parameter, *System Management*, 5-32
- Lun parameter
 - ALUN\$, *I/O Drivers*, 1-17
 - CLOCKA: subroutine
 - K-series, *I/O Drivers*, 13-11
 - LADRV, *I/O Drivers*, 12-6
 - CLOCKB: subroutine
 - K-series, *I/O Drivers*, 13-12
 - LADRV, *I/O Drivers*, 12-8
 - general (TTDRV), *I/O Drivers*, 2-12
 - GLUN\$ macro, *I/O Drivers*, 1-22
 - IO.ATA function (TTDRV), *I/O Drivers*, 2-23
 - IO.ATT function, *I/O Drivers*, 1-27
 - IO.CCO function (TTDRV), *I/O Drivers*, 2-25
 - IO.DET function, *I/O Drivers*, 1-28
 - IO.EIO function (TTDRV), *I/O Drivers*, 2-28
 - IO.GTS function (TTDRV), *I/O Drivers*, 2-35
 - IO.HNG function (TTDRV), *I/O Drivers*, 2-37
 - IO.KIL function, *I/O Drivers*, 1-29
 - IO.RAL function (TTDRV), *I/O Drivers*, 2-38
 - IO.RLB function, *I/O Drivers*, 1-30
 - IO.RNE function (TTDRV), *I/O Drivers*, 2-40
 - IO.RPR function (TTDRV), *I/O Drivers*, 2-42

Lun parameter (cont'd.)

- IO.RST function (TTDRV), *I/O Drivers*, 2-45
- IO.RTT function (TTDRV), *I/O Drivers*, 2-47
- IO.RVB function, *I/O Drivers*, 1-31
- IO.SMC function (TTDRV), *I/O Drivers*, 2-62
- IO.WAL function (TTDRV), *I/O Drivers*, 2-49
- IO.WBT function (TTDRV), *I/O Drivers*, 2-51
- IO.WLB function, *I/O Drivers*, 1-32
- IO.WVB function, *I/O Drivers*, 1-33
- IO.XCL function (XEDRV), *I/O Drivers*, 10-19
- IO.XIN function (XEDRV), *I/O Drivers*, 10-20
- IO.XOP function (XEDRV), *I/O Drivers*, 10-6
- IO.XRC function (XEDRV), *I/O Drivers*, 10-15
- IO.XSC function (XEDRV), *I/O Drivers*, 10-7
- IO.XTL function (XEDRV), *I/O Drivers*, 10-21
- IO.XTM function (XEDRV), *I/O Drivers*, 10-12
- LAMSKS: subroutine (LADRV), *I/O Drivers*, 12-18
- QIO\$ basic syntax, *I/O Drivers*, 1-7
- SF.GMC function (TTDRV), *I/O Drivers*, 2-53
- LUT, *I/O Drivers*, 1-7; *Writing I/O Driver*, 2-12, 3-2
 - contents, *I/O Drivers*, 1-3
 - defined, *I/O Drivers*, 1-3
 - specifying, *I/O Drivers*, 1-3
- LV11 line printer, *I/O Drivers*, 7-2
 - /LW switch
 - DMP utility, *Utilities*, 5-6

M

- M.CTSZ offset
 - retrieval pointer block count field size, *I/O Operations*, C-2
- M.EFNU offset
 - extension file number, *I/O Operations*, C-2
- M.EFSQ offset
 - extension file sequence number, *I/O Operations*, C-2

M.ERVN offset
 extension relative volume number, *I/O Operations*, C-2

M.ESQN offset
 map area, *I/O Operations*, C-2

M.LBSZ offset
 retrieval pointer logical block number field size, *I/O Operations*, C-2

M.MAX offset
 available retrieval pointer words, *I/O Operations*, C-2

M.RTRV offset
 retrieval pointer start, *I/O Operations*, C-2

M.USE offset
 retrieval pointer word count, *I/O Operations*, C-2

MAC command, *Program Development*, 1-4, 3-5
 See also MACRO-11
 including a library, *Program Development*, 6-4
 switches
 /CR, *Program Development*, 3-7
 /DS, *Program Development*, 3-2
 /ML, *Program Development*, 6-4
 /SP, *Program Development*, 3-5, 3-7, 6-4

MAC file type, *Program Development*, 3-1

Machine code
 binary, *Introduction*, 5-5

MACHINE radix
 CFL, *Error Logging*, 5-6

Macro, *RMS-11 Intro*, 4-7
 argument concatenation example, *MACRO-11*, 6-8
 arguments in definitions and calls, *MACRO-11*, 6-5
 attribute directives, *MACRO-11*, 6-13, 6-14
 begin with .MACRO, *MACRO-11*, 6-2
 block-declaration, *RMS-11 Macro*, 2-8 to 2-10
 block-operation, *RMS-11 Macro*, 5-90, 5-110
 call
 cross-reference of symbols, *Program Development*, 3-7
 resolution, *Program Development*, 1-5, 1-11, 2-6
 unrecognized, *Program Development*, 2-6
 CALL (K-series), *I/O Drivers*, 13-28
 calling, *MACRO-11*, 6-5

Macro (cont'd.)

CALLS (LADRV), *I/O Drivers*, 12-24

concatenation of arguments, *MACRO-11*, 6-12

creating local symbols automatically, *MACRO-11*, 6-9

defining, *MACRO-11*, 6-2

definition of terms, *MACRO-11*, 6-2

directory-operation, *RMS-11 Macro*, 5-78, 5-94, C-2

dummy arguments in definition, *MACRO-11*, 6-2

facilities-declaration, *RMS-11 Macro*, 2-2, C-2

field-access, *RMS-11 Macro*, 2-11 to 2-12, 2-16 to 2-18, C-2

field-initialization, *RMS-11 Macro*, 2-10, C-2

file-operation, *RMS-11 Macro*, 5-3, 5-9, 5-29, 5-35, 5-40 to 5-41, 5-46, 5-65, 5-72, C-2

formatting of definitions, *MACRO-11*, 6-4

if name is same as user label, *MACRO-11*, 6-5

INITS
 K-series, *I/O Drivers*, 13-28
 LADRV, *I/O Drivers*, 12-24

keyword arguments, *MACRO-11*, 6-10

keywords can override positional relationship, *MACRO-11*, 6-5

library, *Program Development*, 6-2
 creating a user, *Program Development*, 6-2, 6-3
 replacing modules, *Program Development*, 6-10
 search of system, *Program Development*, 1-5, 1-10, 2-6

macro-declaration, *RMS-11 Macro*, 2-2

nesting
 maximum level, *MACRO-11*, 6-7

number of arguments in calls, *MACRO-11*, 6-9

operation, *RMS-11 Macro*, 2-9

passing numeric arguments as symbols, *MACRO-11*, 6-8

pool-declaration, *RMS-11 Macro*, 2-4, C-2

record-operation, *RMS-11 Macro*, 5-25, 5-49, 5-51, 5-54, 5-58, 5-60, 5-62 to 5-63, 5-67, 5-83, 5-87, 5-91, 5-95, 5-106, 5-108, 5-122, 5-124, C-3

relationship of dummy and real arguments, *MACRO-11*, 6-5

Macro (cont'd.)

- separators for arguments, *MACRO-11*, 6-5
- special characters in arguments, *MACRO-11*, 6-7
- special treatment of DIGITAL multinational characters in arguments, *MACRO-11*, 6-6
- stream-operation, *RMS-11 Macro*, 5-6, 5-27, 5-51, 5-53, 5-56, 5-58, 5-70, 5-100, 6-114, 6-126, C-3
- symbol
 - definition, *Program Development*, 1-4, 1-10, 2-6, 6-4
 - symbol-declaration, *RMS-11 Macro*, 2-2
- macro, *Introduction*, 5-12
- MACRO-11, *RMS-11 User's Guide*, 1-13
- and ODL files, *RMS-11 User's Guide*, 8-5
- assembling source file, *Program Development*, 3-1, 3-2
- cross-reference listing, *Program Development*, 1-5, 1-7, 3-7
- data storage
 - definition, *Program Development*, 2-8
- default search of system library, *Program Development*, 1-5, 1-10, 2-6
- defining local symbols, *Program Development*, 2-7
- directives, *Program Development*, 1-4, 1-5
- disabling global default, *Program Development*, 3-1, 3-2
- error, *Program Development*, 3-2, 3-4
- error code
 - A, *Program Development*, 3-3
 - E, *Program Development*, 3-4
 - Q, *Program Development*, 3-4
 - U, *Program Development*, 3-4
- error message, *Program Development*, 3-2, 3-5
- interface
 - K-series, *I/O Drivers*, 13-28 to 13-29
 - LADRV, *I/O Drivers*, 12-23
- key segments, *RMS-11 User's Guide*, 6-7
- listing, *Program Development*, 3-4, 3-5
 - generation, *Program Development*, 3-5
- location counter, *Program Development*, 1-6
- MAC command, *Program Development*, 1-4, 3-2, 3-5, 6-4
- macro
 - cross-reference, *Program Development*, 3-7
 - library usage, *Program Development*, 6-3, 6-4

MACRO-11

- macro (cont'd.)
 - symbol, *Program Development*, 1-4, 2-6, 6-4
- MACRO command, *Program Development*, 1-4, 3-1, 3-4, 3-7, 6-3
- object module, *Program Development*, 3-4, 3-5, 3-6
- placement control, *RMS-11 User's Guide*, 6-14
- populating files, *RMS-11 User's Guide*, 6-27
- source file, *Program Development*, 2-1
 - cross-reference symbols
 - CRF utility, *Utilities*, B-2
 - format, *Program Development*, 2-1 to 2-3
- source input, *Program Development*, 1-4
- statement format, *Program Development*, 2-3
- support routine (LADRV), *I/O Drivers*, 12-23
- symbol
 - cross-reference, *Program Development*, 3-7
 - evaluation, *Program Development*, 1-5, 3-1, 3-2, 6-4
- table of contents generation, *Program Development*, 2-6
- MACRO-11 assembler, *Introduction*, 5-4, 5-11
- Macro argument delimiters
 - table of, *MACRO-11*, 2-3
- Macro Call command
 - EDI editor, *Utilities*, 7-28
- MACRO command, *Program Development*, 1-4, 3-4; *Introduction*, 5-4
- See also MACRO-11
- qualifiers
 - /CROSS_REFERENCE, *Program Development*, 1-9, 3-7
 - /DISABLE, *Program Development*, 3-1
 - /LIBRARY, *Program Development*, 6-3
 - /LIST, *Program Development*, 3-1, 3-4, 3-7, 6-3
 - /NOOBJECT, *Program Development*, 3-1, 3-7
 - /OBJECT, *Program Development*, 3-4
- Macro command
 - EDI editor, *Utilities*, 7-28
- .MACRO directive, *MACRO-11*, 6-2
 - label not recommended, *MACRO-11*, 6-3
 - summary, *MACRO-11*, 6-1
- Macro directive, *MACRO-11*, 6-1

Macro directive (cont'd.)

- .ENDM, *MACRO-11*, 6-3
- .MACRO, *MACRO-11*, 6-2
- .MEXIT, *MACRO-11*, 6-4
- table, *MACRO-11*, 6-1

Macro Execute command

- EDI editor, *Utilities*, 7-29

\$ macro form, *Executive*, 1-5

Macro global symbol, *I/O Operations*, 2-24

Macro Immediate command

- EDI editor, *Utilities*, 7-30

Macro library, *Program Development*, 6-3;
DCL, 6-33

- adding modules, *Program Development*, 6-9

- definitions, *Program Development*, 6-3, 6-4

- DIGITAL-supplied, *Program Development*,
1-10

- EXEMC.MLB, *Program Development*, 1-10

- listing information, *Program Development*,
6-10, 6-11

- replacing modules, *Program Development*,
6-10

- RMSMAC.MLB, *RMS-11 Macro*, 2-22;
Program Development, 1-10

- RSXMAC.SML, *Program Development*, 1-10

Macro local symbol, *I/O Operations*, 2-25

Macro Metalanguage

- See MML

/MACRO qualifier

- LIBRARY command, *Program Development*,
6-2

Macro run time

- exceptions, *I/O Operations*, 2-21

- FDB address, *I/O Operations*, 2-23

- initialization, *I/O Operations*, 2-20

MAC task, *Program Development*, 1-4

- See MACRO-11

MAG, *I/O Operations*, G-9

- task error messages, *I/O Operations*, G-14

Magnetic tape, DCL, 5-13

- See also Tape

- See Medium

- blank, DCL, 5-13

- density

- displaying in IOX, *System Management*,
12-23

- specifying in IOX, *System Management*,
12-23

- dismounting, MCR, 3-61

- driver, *I/O Drivers*, 6-1

- error retries, *System Management*, 12-49

Magnetic tape (cont'd.)

Files-11 structure

- ANSI standard for, MCR, 2-1

- function code list, *I/O Drivers*, B-8

- initializing, MCR, 3-83

IOX exercise

- example, *System Management*, 12-65

- using SELECT, *System Management*,
12-65

- label, MCR, 3-61, 3-84

- mounting, MCR, 3-109; DCL, 5-58 to
5-62

MS-type

- SYSGEN question, *System Generation*,
3-49

MT-type

- SYSGEN question, *System Generation*,
3-54

MU-type

- SYSGEN question, *System Generation*,
3-47

- new, DCL, 5-13

- record, MCR, 3-122

- records tested, *System Management*, 12-46

- RMSCNV utility, *RMS-11 Utilities*, 4-8

- RMSDCK utility, *RMS-11 Utilities*, 6-7

- RMSDEF utility, *RMS-11 Utilities*, A-8,
A-10

- RMSDES utility, *RMS-11 Utilities*, 2-34

- RMSRST utility, *RMS-11 Utilities*, 7-8 to
7-9

TA11 cassette

- SYSGEN question, *System Generation*,
3-48

testing

- altering record count, *System
Management*, 12-46

TK25

- SYSGEN question, *System Generation*,
3-49

TK50

- SYSGEN question, *System Generation*,
3-47

TMSCP

- SYSGEN question, *System Generation*,
3-47

TS11

- SYSGEN question, *System Generation*,
3-49

TSV05

- SYSGEN question, *System Generation*,
3-49

- Magnetic tape (cont'd.)
 - TU80
 - SYSGEN question, *System Generation*, 3-49
 - TU81
 - SYSGEN question, *System Generation*, 3-47
- Magnetic tape formatter
 - TM02/03
 - SYSGEN question, *System Generation*, 3-39
- Magnetic tape kit
 - contents, *System Generation*, 2-4
 - copying
 - on line, *System Generation*, 2-15 to 2-17
 - stand alone, *System Generation*, 2-8 to 2-11
 - under VAX-11 RSX, *System Generation*, 2-22 to 2-24
- Magtape, *RMS-11 Macro*, 3-2, 5-43, 5-77, 5-88, 5-104, 5-111, 5-117
 - See also Magnetic tape
 - See also Medium
 - ANSI, *RMS-11 Macro*, 5-20, 5-37
- MAGTAPE_BLOCK_SIZE
 - RMSDES utility, *RMS-11 Utilities*, 2-34
- .MAIN.
 - default of .TITLE, *MACRO-11*, 5-10
- /MAIN keyword
 - SET command, *MCR*, 3-171
- MAN option
 - INI keyword /BAD, *MCR*, 3-85
- /MAN switch
 - BAD utility, *Utilities*, 2-4
 - FMT utility, *Utilities*, 9-4
- Map
 - debugging use, *Program Development*, 5-2, 5-8
 - examining at terminal, *Program Development*, 4-6
 - full, *Program Development*, 4-7
 - generating, *Program Development*, 4-5 to 4-7
 - reducing width, *Program Development*, 4-5, 4-6
 - stack limits, *Program Development*, 5-8
 - standard, *Program Development*, 4-5, 4-6
- MAP\$ directive, *Executive*, 5-146
- Map Address Window directive, *Executive*, 5-145
- Map area, *I/O Operations*, 5-5
 - file header block, *I/O Operations*, C-5
- MAP attribute, *System Management*, 18-39 to 18-42
 - examples, *System Management*, 18-41
 - secondary mappings, *System Management*, 18-40
- Map file
 - cross-reference listing, *Task Builder*, 10-12, 11-24
 - example, *Task Builder*, 10-12 to 10-14, 11-25 to 11-26
 - including global symbol, *Task Builder*, 11-66
 - long
 - specifying, *Task Builder*, 11-39
 - printing, *Task Builder*, 1-3, 1-7, 10-49, 11-51
 - short
 - example, *Task Builder*, 10-41 to 10-47, 11-40 to 11-42
 - specifying, *Task Builder*, 10-41
 - specifying, *Task Builder*, 10-29, 11-46
 - wide
 - specifying, *Task Builder*, 10-54, 11-71
- MAP file type, *Program Development*, 4-6
- <MAPPED> symbol, *Indirect*, 2-11
- Mapped system, *Task Builder*, 2-15
 - addressing memory, *Task Builder*, 2-15
 - definition, *System Generation*, 1-11
- Mapping, *Executive*, 3-2
 - data space, *Executive*, 3-3
 - directive
 - virtual program section, *Task Builder*, 5-67
 - instruction space, *Executive*, 3-3
 - privileged tasks, *Executive*, 3-19
 - supervisor mode, *Task Builder*, 2-25
 - window-to-region
 - returning current assignment, *Executive*, 5-131
- Mapping pointer
 - file window, *System Management*, 1-9
- Map-privileged task build
 - SYSGEN question, *System Generation*, 3-75
- /MAP qualifier, *Task Builder*, 11-46
 - LINK command, *Program Development*, 6-6
- Map Supervisor D-Space directive, *Executive*, 5-152
- Map-supplied system task build
 - SYSGEN question, *System Generation*, 3-79

- .MARK routine
 - save file position, *I/O Operations*, 4-22
- MARKS routine, *Task Builder*, 4-19
- Mark Time directive, *Executive*, 5-148
- Mark time request
 - canceling, *Executive*, 5-40
- Mask parameter
 - DIGO: subroutine (K-series), *I/O Drivers*, 13-14
 - DINP: subroutine (K-series), *I/O Drivers*, 13-15
 - DOUT: subroutine (K-series), *I/O Drivers*, 13-18
- Mask register
 - See M register
- Mask symbol
 - See Code and mask symbol
- Mask word
 - creating, *Writing I/O Driver*, 4-20
 - I/O function, *Writing I/O Driver*, 4-20
- MASSBUS
 - controller, *Writing I/O Driver*, 1-14
 - device-level module, *Error Logging*, 4-35
 - mixed configuration, *Error Logging*, 4-35
 - mixed device, *Writing I/O Driver*, 1-13
 - status flag, *System Management*, 4-13
- Mass insertion, *RMS-11 User's Guide*, 2-18, 6-28, 7-9
 - populating indexed files, *RMS-11 User's Guide*, 6-29
- Mass-insertion mode
 - RMSCNV utility, *RMS-11 Utilities*, 4-10
- Mass Storage Control Protocol
 - See MSCP device
 - See MSCP-type controller
- Master Command Table
 - See MCT
- Master File Directory, MCR, 2-2, 3-81, 3-88, 3-89, 3-114, 3-208
 - See also MFD
- /MA switch, *Task Builder*, 10-29
 - RMSCNV utility, *RMS-11 Utilities*, 4-10
 - TKB, *Program Development*, 4-7
- Match criterion, *RMS-11 Intro*, 3-12
 - random access, *RMS-11 User's Guide*, 5-13
- MAXBUF option, *Task Builder*, 12-24
- /MAXEXT keyword
 - SET command, MCR, 3-172
 - SET command (VMR), *System Management*, 5-57
- /MAXIMUM qualifier
 - BRU utility, *System Generation*, 2-10; *Utilities*, 3-19
- Maximum record number
 - See also MRN
 - RMSDEF utility, *RMS-11 Utilities*, A-9
- Maximum record size
 - RMSDEF utility, *RMS-11 Utilities*, A-9
- /MAXPKT keyword
 - SET command, MCR, 3-172
- MBC, *RMS-11 User's Guide*, 2-17
 - sequential files, *RMS-11 User's Guide*, 3-15
- /MB switch
 - CMP utility, *Utilities*, 4-3
- Mbuf parameter
 - IO.LOD function (LADRV), *I/O Drivers*, 12-26
- .MCALL assembler directive, *RMS-11 Macro*, 2-2; *Executive*, 1-4
- .MCALL directive, *I/O Drivers*, 1-17; *I/O Operations*, 2-2; *Program Development*, 1-10, 2-6, 3-4; *MACRO-11*, 6-21
 - for QIO, *I/O Drivers*, 1-4
 - overriding permanent symbol definitions, *MACRO-11*, 6-21
 - relationship to .LIBRARY, *MACRO-11*, 5-49, 6-21
 - summary, *MACRO-11*, 6-1
 - using with user macro library, *Program Development*, 6-3, 6-4
 - when required, *MACRO-11*, 6-21
- .MCALL macro, *I/O Drivers*, 1-15
 - example, *I/O Drivers*, 1-17
- MC argument
 - for .LIST/.NLIST, *MACRO-11*, 5-8
- MCL argument
 - for .ENABL/.DSABL, *MACRO-11*, 5-14
- MCR, *Program Development*, 1-2, 1-3; *System Management*, 17-2; *DCL*, 1-1 to 1-2; *Introduction*, 1-5, 5-1; *MACRO-11*, 7-1
 - as default CLI, *System Management*, 2-4
- CLI commands
 - list of, MCR, 1-7
 - default prompt, MCR, 1-1, 2-13
 - description of keywords for, MCR, 1-2
 - explicit prompt, MCR, 1-1, 2-13
 - invoking, MCR, 2-13
 - function of, MCR, 1-1
 - initialization commands
 - list of, MCR, 1-5
 - input prompts, MCR, 2-13

MCR (cont'd.)
 multiuser protection commands
 list of, *MCR*, 1-7
 processing command line, *MCR*, 1-4
 QMG
 command format, *System Management*, 3-15
 naming conventions, *System Management*, 3-15
 summary of commands, *MCR*, 1-5 to 1-7
 system maintenance commands
 list of, *MCR*, 1-7
 task control commands
 list of, *MCR*, 1-6
 translator table
 example, *System Management*, 18-16
MCR command, *System Management*, 18-4;
 DCL, 9-26
 linking
 ODT, *Debugging*, 1-2
 ODTID, *Debugging*, 1-3
 explicitly, *Debugging*, 1-4
 supervisor-mode libraries, *Debugging*, 1-4
MCR command string format, *MACRO-11*, 7-4
MCR interface, *MCR*, 1-4
 /*MCR* keyword
 HELP command, *MCR*, 3-73
 SET command, *MCR*, 3-172
MCR mode, *Indirect*, 2-54
MCR prompt, *MCR*, 2-16
 /*MC* switch, *Indirect*, 2-33
 /*MC* switch (*Indirect*), *Indirect*, 2-33
MCT
 contents, *System Management*, 18-7
 creating entry, *System Management*, 18-23
MD argument
 for *.LIST/.NLIST*, *MACRO-11*, 5-8
.MDELETE directive, *MACRO-11*, 6-22
 summary, *MACRO-11*, 6-1
 /*MD* switch
 DMP utility, *Utilities*, 5-6
ME argument
 for *.LIST/.NLIST*, *MACRO-11*, 5-8
MEB argument
 for *.LIST/.NLIST*, *MACRO-11*, 5-8
Media, *Introduction*, 6-8
Media failure
 definition, *System Management*, 11-2
 detecting, *System Management*, 11-2

Medium
 and I/O time, *RMS-11 User's Guide*, 2-3
 and record formats
 file organizations, *RMS-11 User's Guide*, 1-20
 and variable-length format, *RMS-11 User's Guide*, 2-15
 disk
 retrieval pointers, *RMS-11 User's Guide*, 8-11
 usage, *RMS-11 User's Guide*, 8-13
 magnetic tape, *RMS-11 User's Guide*, 1-18
 file specification, *RMS-11 User's Guide*, A-4 to A-5
 placement control, *RMS-11 User's Guide*, 6-13
 sequential files, *RMS-11 User's Guide*, 3-3
Memory, *Introduction*, 6-5
 See also Virtual memory management
 address, *MCR*, 3-126
 allocation, *System Management*, 1-2
 cache, *Crash Dump Analyzer*, 3-44
 compacting space
 See *SHF*
 dumping, *Task Builder*, D-1 to D-15
 dynamic, *MCR*, 3-103, 3-143; *System Management*, 5-29, 8-1
 allocating, *MCR*, 3-96
 system requirements, *System Management*, 8-1
E command, *Debugging*, 6-2
 examining memory location, *XDT*, 2-3
 extending for task, *Task Builder*, 12-15
F command, *Debugging*, 6-4
 fill command, *Debugging*, 2-7
 fixing tasks in, *MCR*, 3-63
H register, *Debugging*, 2-6
L command, *Debugging*, 2-8, 6-4
 limit register
 high, *Debugging*, 5-3, 6-2
 low, *Debugging*, 5-3, 6-2
 listing
 format, *Debugging*, 6-5
 listing contents of
 See *L* command
 location
 closing, *MCR*, 3-127
 displaying, *MCR*, 3-126
 inserting values in, *MCR*, 3-126
 opening, *MCR*, 3-126
L register, *Debugging*, 2-6

Memory (cont'd.)

- mapping, *MCR*, 2-19
- N command, *Debugging*, 6-2
- paging, *System Library*, 8-30
- partition, *MCR*, 2-19; *Introduction*, 6-5
- physical
 - addressing, *Task Builder*, 2-15
 - reducing use, *Task Builder*, 3-1
 - search command, *Debugging*, 2-7, 2-8, 2-9, 6-2
 - using efficiently, *MACRO-11*, F-1
- W command, *Debugging*, 6-2
- /MEMORY_MANAGEMENT qualifier, *Task Builder*, 11-47
- Memory allocation, *MACRO-11*, 5-39
- Memory allocation file
 - See Map file
- Memory box
 - adding to configuration, *System Management*, 4-28
- Memory compaction
 - definition, *System Management*, 1-4
- Memory display
 - altering from *MCR* command line, *System Management*, 7-8
- RMD
 - accessing, *System Management*, 7-4
 - description, *System Management*, 7-4
 - FREE command, *System Management*, 7-8
 - modifying, *System Management*, 7-8
 - RATE command, *System Management*, 7-8
 - setup commands, *System Management*, 7-8
 - symbols, *System Management*, 7-7
- Memory error, *Error Logging*, 1-6
- Memory failure, *System Management*, 11-5
- Memory management, *System Library*, 7-1
 - See also Virtual memory management
 - core blocks release (\$RLCB), *System Library*, 7-4
 - core blocks request (\$RQCB), *System Library*, 7-3
 - directives, *Executive*, 3-1
 - data structures, *Executive*, 3-10
 - summary, *Executive*, 3-8
 - fixing tasks, *System Management*, 5-19
 - initialize (\$INIDM), *System Library*, 7-2
 - system
 - specifying, *Task Builder*, 10-30, 11-47

Memory management (cont'd.)

- use by task, *Task Builder*, 2-16
- Memory management unit, *Task Builder*, 2-15
- Memory parity error event
 - subpacket information, *Error Logging*, 4-66
- Memory parity support, *System Management*, 1-7
- Memory partition, *System Management*, 1-1
 - definition, *System Management*, 1-1
- Memory region, *System Management*, 1-1
- Memory-resident overlays, *RMS-11 User's Guide*, 1-13, 8-3, 8-6
- /MEMSIZ, *Crash Dump Analyzer*, 2-8, 2-9
- <MEMSIZ> symbol, *Indirect*, 2-19
- M error
 - multiply defined label, *MACRO-11*, 1-3
 - redefine permanently assigned symbol, *MACRO-11*, 2-7
- Message
 - See also Error messages
 - BPR, *System Management*, 3-51
 - command utilities, *RMS-11 Utilities*, C-1
 - Console Logging, *System Management*, 9-14
 - diagnostic
 - controlling, *Task Builder*, 10-33, 11-70
 - DTE, *Utilities*, C-10
 - EDI editor, *Utilities*, 7-53
 - invocation, *Debugging*, 1-5
 - MFT, *Utilities*, C-13
 - output despooler, *System Management*, 3-50
 - QMG command, *System Management*, 3-43
 - RMSDEF utility, *RMS-11 Utilities*, A-20
 - RMSDES utility, *RMS-11 Utilities*, 2-52
 - sending to task, *Task Builder*, 10-39, 11-53
 - system service, *MCR*, 3-200
 - utility
 - BAD, *Utilities*, 2-9
 - BRU, *Utilities*, 3-39
 - CMP, *Utilities*, 4-8
 - CRF, *Utilities*, B-6
 - DMP, *Utilities*, 5-10
 - DSC, *Utilities*, 6-21
 - FLX, *Utilities*, 8-16
 - LBR, *Utilities*, 10-32
 - PAT, *Utilities*, 11-8
 - SLP, *Utilities*, 13-20
 - VFY, *Utilities*, 14-9
 - warning
 - SHUTUP program, *System Management*, 6-2

- Message formatting, *System Library*, 6-1
 - carriage return/line feed insertion, *System Library*, 6-12
 - date conversion (\$DAT)
 - alternate format, *System Library*, 6-4
 - standard format, *System Library*, 6-3
 - edit directive (\$EDMSG), *System Library*, 6-8
 - extended ASCII, *System Library*, 6-11
 - field mark, *System Library*, 6-14
 - filename string, *System Library*, 6-14
 - form-feed insertion, *System Library*, 6-11
 - general, *System Library*, 6-8
 - space insertion, *System Library*, 6-13
 - time conversion (\$TIM), *System Library*, 6-6
 - uppercase text (\$CVTUC), *System Library*, 6-1
- /MESSAGE keyword
 - CLI command, *MCR*, 3-44
- MESSAGE statement
 - CFL, *Error Logging*, 5-40
- /MESSAGE subkeyword
 - COMMAND LINE INTERPRETER
 - command, *MCR*, 3-43
 - setting for /MESSAGE keyword, *MCR*, 3-44
- /ME switch
 - PIP utility, *Program Development*, 4-4; *Utilities*, 12-21, 12-36
 - subswitches
 - /BL, *Utilities*, 12-37
 - /CO, *Utilities*, 12-37
 - /FO, *Utilities*, 12-37
 - /NV, *Utilities*, 12-37
 - /SU, *Utilities*, 12-37
- Metalanguage, *System Management*, 18-8
 - category references, *System Management*, 18-9
 - exclusive-OR, *System Management*, 18-10
 - optional syntax indicators, *System Management*, 18-10
 - production rule, *System Management*, 18-9
 - adjective, *System Management*, 18-9
 - subject, *System Management*, 18-9
 - syntax tree, *System Management*, 18-9
- .MEXIT directive, *MACRO-11*, 6-4
 - exit .IRP before normal completion, *MACRO-11*, 6-18
 - exit .IRPC before normal completion, *MACRO-11*, 6-19
- .MEXIT directive (cont'd.)
 - exit .REPT before normal completion, *MACRO-11*, 6-21
 - summary, *MACRO-11*, 6-1
 - terminates macro before completion, *MACRO-11*, 6-4
 - valid in repeat blocks, *MACRO-11*, 6-4
- MFD, *I/O Operations*, 5-2; *DCL*, 4-1, 4-2, 5-11
 - See also Master File Directory
 - use with separate Files-11 ACPs, *System Management*, 1-7
- MFT, *System Management*, 1-19
 - copying files, *Utilities*, C-7
 - deleting files, *Utilities*, C-8
 - dependence on CLI, *Utilities*, C-7
 - file transfer algorithm, *Utilities*, C-7
 - installing for use with PFT, *Utilities*, C-7
 - messages, *Utilities*, C-13
 - performing file operations, *Utilities*, C-7
 - requirements, *Utilities*, C-1
 - use with DTE, *Utilities*, C-7
 - using MCR command syntax, *Utilities*, C-7
 - using with Professional 300 Series, *Utilities*, C-7
- MFT/FORM command, *Utilities*, C-7
- MFT command, *Utilities*, C-7
 - deleting files, *Utilities*, C-9
 - /DE option, *Utilities*, C-8
 - example, *Utilities*, C-8, C-9
 - option
 - /DE, *Utilities*, C-8
 - /REM, *Utilities*, C-7, C-8
- /MH switch
 - LBR utility, *Utilities*, 10-23
- Microcode loading
 - LADRV, *I/O Drivers*, 12-30
 - LPA11 (LADRV), *I/O Drivers*, 12-30
 - XEDRV, *I/O Drivers*, 10-21
- Micro/RSX
 - incorporating a driver, *Writing I/O Driver*, 1-22, 5-15
- Micro/RSX File Transfer Utility
 - See MFT
- Minus sign (-)
 - complements switch in RSX command string, *MACRO-11*, 7-5
 - special character in *MACRO-11*, *MACRO-11*, 2-2
- Minus sign operator (-), *MACRO-11*, 2-4
 - See Operator

- Minus sign operator (-) (cont'd.)
 - subtraction operator, *MACRO-11*, 2-4
 - unary minus, *MACRO-11*, 2-4
- Mixed MASSBUS
 - definition, *System Generation*, 1-11
 - SYSGEN question, *System Generation*, 3-36
- MK11 memory box
 - excluding from system, *System Management*, 11-5
 - failure, *System Management*, 11-5
- ML-11 disk emulator, *I/O Drivers*, 4-4
- MLB file type, *Program Development*, 6-1
- /ML switch
 - MAC command, *Program Development*, 6-4
 - RMSCNV utility, *RMS-11 Utilities*, 4-10
- MML, *System Management*, 18-11
 - features, *System Management*, 18-8
 - literals, *System Management*, 18-14
 - nonliterals, *System Management*, 18-15
 - parser functions, *System Management*, 18-15
 - handling of literals, *System Management*, 18-14
 - handling of nonliterals, *System Management*, 18-15
 - translator functions, *System Management*, 18-15
 - handling of literals, *System Management*, 18-14
 - handling of nonliterals, *System Management*, 18-15
- /MM switch, *Task Builder*, 10-30
- Mnemonic device, *System Generation*, 2-3
- MNLOAD subroutine, *Task Builder*, 4-9
- Mode
 - See also Access mode
 - See also Addressing mode
 - See also Record transfer mode
 - change (XEDRV), *I/O Drivers*, 10-24
 - default bit (XEDRV), *I/O Drivers*, 10-25
 - user, *XDT*, 2-2
- Modem
 - connecting computer systems, *Utilities*, C-1
 - dial command string, *Utilities*, C-5
 - null cable, *Utilities*, C-1
 - TTDRV, *I/O Drivers*, 2-84
 - autobaud, *I/O Drivers*, 2-84
 - autocall enable, *I/O Drivers*, 2-55
 - default answer speed, *I/O Drivers*, 2-21, 2-84
 - DZ11 remote line, *I/O Drivers*, 2-84
- Modem
 - TTDRV (cont'd.)
 - setting answer speed, *I/O Drivers*, 2-84
- Mode parameter
 - ADSWP: subroutine
 - K-series, *I/O Drivers*, 13-9
 - LADRV, *I/O Drivers*, 12-4
 - CLOCKB: subroutine
 - K-series, *I/O Drivers*, 13-12
 - LADRV, *I/O Drivers*, 12-7
 - DASWP: subroutine
 - K-series, *I/O Drivers*, 13-13
 - LADRV, *I/O Drivers*, 12-9
 - device-specific function
 - transmit (LRDRV), *I/O Drivers*, 11-5
 - DISWP: subroutine
 - K-series, *I/O Drivers*, 13-16
 - LADRV, *I/O Drivers*, 12-11
 - DOSWP: subroutine
 - K-series, *I/O Drivers*, 13-17
 - LADRV, *I/O Drivers*, 12-13
 - GTHIST: subroutine (K-series), *I/O Drivers*, 13-19
 - IO.CLK function (LADRV), *I/O Drivers*, 12-26
 - IO.STC function
 - transmitter (LRDRV), *I/O Drivers*, 11-6
- MODIFY option
 - ACNT, *System Management*, 2-11
- Module
 - control file
 - See Control file module
 - CPU-level
 - See CPU-level module
 - device-level
 - See Device-level module
 - dispatcher
 - See Dispatcher module
 - formatter
 - See Formatter module
 - notes
 - See Notes module
 - user-written
 - See User-written module
- Module name, *Program Development*, 2-5, 6-5, 6-6
- LBR requirement, *Error Logging*, 4-16
- table, *Program Development*, 6-9
 - macro library, *Program Development*, 6-3

- Module name
 - table (cont'd.)
 - object library, *Program Development*, 6-5, 6-6
- MODULE statement
 - CFL, *Error Logging*, 5-31
 - NOTES module, *Error Logging*, 4-34
 - user-written module, *Error Logging*, 4-28
- Module version, *Program Development*, 2-5
- Modulus binary operator
 - CFL expression, *Error Logging*, 5-14
- Monitor Console Routine
 - See MCR
- MOU command
 - See also MOUNT command
 - keywords
 - /EXT, *System Management*, 1-8
 - /FOR
 - Shadow Recording preparation, *System Management*, 16-3
 - /LRU, *System Management*, 1-8
 - /WIN, *System Management*, 1-9
- /MOU keyword
 - SAVE command, MCR, 3-149; *System Management*, 1-9
- MOUNT command, *Batch and Queue*, 3-14; MCR, 3-108 ; DCL, 5-4, 5-12, 5-13, 5-46 to 5-62, 9-26 to 9-28
 - accessing a volume, MCR, 2-12
 - brief description, MCR, 1-5
 - default file protection and, MCR, 2-4
 - format, MCR, 3-110, 3-118; *System Management*, 15-2
 - function, *System Management*, 15-2
 - keywords
 - /ACP, MCR, 3-111, 3-119
 - /BS, MCR, 3-119
 - /CACHE, MCR, 3-111
 - /CC, MCR, 3-120
 - /DENS, MCR, 3-112, 3-120
 - /EXT, MCR, 3-112
 - /FOR, MCR, 2-12, 3-113, 3-120
 - /FPRO, MCR, 3-113, 3-120
 - /LOCK, MCR, 3-113, 3-120
 - /LRU, MCR, 3-114
 - /[NO]HDR3, MCR, 3-120
 - /[NO]LABEL, MCR, 3-120
 - /[NO]SHARE, MCR, 3-115, 3-122
 - /[NO]WAIT, MCR, 3-117, 3-124
 - /[NO]WRITE, MCR, 3-117, 3-124
 - /OVR, MCR, 3-114, 3-121
 - /OVRACC, MCR, 3-121
- MOUNT command
 - keywords (cont'd.)
 - /OVREXP, MCR, 3-121
 - /OVRFSID, MCR, 3-121
 - /PARM, MCR, 3-114, 3-121
 - /PRO, MCR, 3-115, 3-122
 - /PUB, MCR, 3-115, 3-122
 - /RS, MCR, 3-122
 - /TR, MCR, 3-122
 - /UIC, MCR, 3-116, 3-123
 - /UNL, MCR, 3-116
 - /VI, MCR, 3-116, 3-123
 - /VOL, MCR, 3-123
 - /WIN, MCR, 3-117
 - parameters, MCR, 3-110; *System Management*, 15-2
 - qualifiers
 - /ACCESSED, *System Management*, 1-8
 - /CACHE, *System Management*, 15-2
 - /EXTENSION, *System Management*, 1-8
 - /FOREIGN, DCL, 5-10, 5-11, 5-13, 5-48
 - Shadow Recording preparation, *System Management*, 16-3
 - /[NO]SHAREABLE, DCL, 5-13, 5-50
 - /NOCACHE, *System Management*, 15-2
 - /NOLABEL, DCL, 5-55
 - /WINDOW, *System Management*, 1-9
 - using to modify file system, *System Management*, 1-8
- Mount Device Transaction Block, *System Management*, 10-42
- /MOUNTED qualifier
 - BRU utility, *Utilities*, 3-20
- MOVE command
 - EDT editor, *Introduction*, 2-17
- Move mode, RMS-11 *Intro*, 4-6; *I/O Operations*, 1-10
 - GET\$ macro, *I/O Operations*, 3-18, 3-21
 - indexed files, *RMS-11 User's Guide*, 7-7
 - PUT\$ macro, *I/O Operations*, 3-24, 3-26
 - relative files, *RMS-11 User's Guide*, 4-12
 - sequential files, *RMS-11 User's Guide*, 3-13
- Move to/from User/Supervisor I/D-Space directive, *Executive*, 5-155
- /MP switch, *Task Builder*, 10-31
- \$MPUB1 routine, *Writing I/O Driver*, 7-27
- \$MPUBM routine, *Writing I/O Driver*, 7-27
- M register, *Debugging*, 2-6, 5-3, 6-2

- .MRKDL routine
 - marking temporary file for deletion, *I/O Operations*, 4-26
 - MRKS module, *Task Builder*, 4-16
 - MRKT\$ directive, *Executive*, 5-148
 - MRN, *RMS-11 User's Guide*, 1-19
 - relative files, *RMS-11 User's Guide*, 4-4 to 4-5
 - MS.ADS address silo
 - transmitter (LRDRV), *I/O Drivers*, 11-5
 - MS.AUT autoaddressing
 - transmitter (LRDRV), *I/O Drivers*, 11-5
 - MSCP5X device-level module, *Error Logging*, 2-7, 2-8, 4-8, A-6
 - MSCP60 device-level module, *Error Logging*, 2-7, 4-8, A-6
 - MSCP80 device-level module, *Error Logging*, 4-8, A-6
 - MSCPAT device-level module, *Error Logging*, 2-7, 4-8, A-6
 - MSCPCE device-level module, *Error Logging*, 2-7, 4-9, A-6
 - MSCP device
 - bad block
 - handling, *System Management*, 13-3
 - replacement, *System Management*, 13-1
 - configuration, *System Management*, 13-3
 - MSCP DU-type devices, *Error Logging*, 4-6
 - MSCPEN device-level module, *Error Logging*, 2-7, 4-9, A-6
 - MSCPSD device-level module, *Error Logging*, 2-7, 4-9, A-6
 - MSCPTO device-level module, *Error Logging*, 2-7, 4-9, A-6
 - MSCP-type controller
 - SYSGEN question, *System Generation*, 3-45
 - MSDS\$ directive, *Executive*, 5-153
 - MTADF\$, *Crash Dump Analyzer*, C-46
 - \$MUL (Integer multiply), *System Library*, 3-1
 - Multiblock count
 - See MBC
 - Multifile operation, *I/O Operations*, 5-7
 - Multinational character set, MCR, 3-4
 - Multiple access operation
 - database structures, *Writing I/O Driver*, 2-8, 2-12
 - Multiple access stream
 - and shared access, *RMS-11 User's Guide*, 2-9 to 2-10
 - I/O techniques, *RMS-11 User's Guide*, 2-17
 - indexed files, *RMS-11 User's Guide*, 7-10
 - relative files, *RMS-11 User's Guide*, 4-15
 - Multiple access stream (cont'd.)
 - sequential files, *RMS-11 User's Guide*, 3-15
 - Multiple buffers, *RMS-11 User's Guide*, 2-18
 - indexed files, *RMS-11 User's Guide*, 7-9
 - relative files, *RMS-11 User's Guide*, 4-15
 - sequential files, *RMS-11 User's Guide*, 3-14
 - Multiple controller, *Writing I/O Driver*, 1-8
 - Multiplexer, MCR, 3-181, 3-184
 - DH11
 - SYSGEN question, *System Generation*, 3-58
 - Multiplication binary operator
 - CFL expression, *Error Logging*, 5-13
 - Multiplication operator
 - summary, *MACRO-11*, 2-4
 - Multiplication precedence class operator
 - CFL expression, *Error Logging*, 5-16
 - Multiply routine
 - double-precision multiply (\$DMUL), *System Library*, 3-3
 - multiply (\$MUL), *System Library*, 3-1
 - Multiport status flag, *System Management*, 4-13
 - Multiprocessor system
 - task issuing I/O request, *Writing I/O Driver*, 1-18
 - Multiprogramming, MCR, 2-19
 - Multirequest mode
 - LADRV, *I/O Drivers*, 12-1
 - Multistream spooling, *System Management*, 3-1
 - Multiuser protection commands, MCR, 1-7
 - Multiuser system, *Introduction*, 6-2
 - /MU switch, *Task Builder*, 10-32
 - /MUTE option
 - command
 - SET HOST/DTE, *Utilities*, C-5
 - Multiprocessor system
 - standalone maintenance, *System Management*, 11-6
 - m variable, *Debugging*, 2-1
 - MVTS\$ directive, *Executive*, 5-155
 - /MXF keyword
 - HOME command, MCR, 3-81
 - INITVOLUME command, MCR, 3-89
- ## N
-
- N.ANM1 field
 - ANSI filename string, *I/O Operations*, B-5

- N.ANM2 field
 - remainder of ANSI filename string, *I/O Operations*, B-5
- N.DID field
 - directory identification, *I/O Operations*, B-3
 - .PARSE routine, *I/O Operations*, 4-13
- N.DVNM field, *I/O Operations*, 4-16
 - ASCII device name, *I/O Operations*, B-3
 - ASCII tape device name, *I/O Operations*, B-5
- N.FID field
 - file identification, *I/O Operations*, B-3, B-5
 - .FIND routine, *I/O Operations*, 4-16
 - .PARSE routine, *I/O Operations*, 4-13
- N.FNAM field
 - file name, *I/O Operations*, B-3
- N.FTYP field
 - file type, *I/O Operations*, B-3
- N.FVER field
 - file version number, *I/O Operations*, B-3
 - tape file version number, *I/O Operations*, B-5
- N.NEXT field
 - context for next .FIND, *I/O Operations*, B-3
 - tape context for next .FIND, *I/O Operations*, B-5
- N.STAT field
 - filename block status word, *I/O Operations*, B-3
 - tape filename block status word, *I/O Operations*, B-5
- N.UNIT field
 - FNB (tape), *I/O Operations*, B-5
 - unit number field, *I/O Operations*, B-3
- N0 parameter
 - RLSBUF: subroutine
 - K-series, *I/O Drivers*, 13-23
 - LADRV, *I/O Drivers*, 12-19
- N\$-family macro, *RMS-11 Macro*, 2-10
 - declaring, *RMS-11 Macro*, C-2
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11, 7-15
- NAM\$B macro, *RMS-11 Macro*, 2-8, C-2
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11, 7-15
- NAM\$E macro, *RMS-11 Macro*, 2-10
 - declaring, *RMS-11 Macro*, C-2
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11
- NAM block, *RMS-11 Macro*, 5-73, 5-80, 5-95 to 5-96; *RMS-11 Intro*, 4-8
- NAM block (cont'd.)
 - chaining to FAB, *RMS-11 Macro*, 2-11
 - declaring, *RMS-11 Macro*, 2-7
 - file specification, *RMS-11 User's Guide*, A-6
 - initializing, *RMS-11 Macro*, 2-9
 - PARSE operation, *RMS-11 Macro*, 5-87
 - summary, *RMS-11 Macro*, 6-94 to 6-107
- NAME
 - file section, *RMS-11 Utilities*, 2-31
 - key section, *RMS-11 Utilities*, 2-38
- /NAME:jobname qualifier
 - PRINT command, *Batch and Queue*, 2-3
- NAME argument
 - for .PSECT, *MACRO-11*, 5-34
- .NAME directive, *Task Builder*, 3-30
 - example, *Task Builder*, 3-31
- /NAMED keyword
 - SET command, *MCR*, 3-173
- Named variable
 - CFL, *Error Logging*, 5-8 to 5-9
- /NAME keyword
 - HOME command, *MCR*, 3-81
- /NAME log file qualifier
 - SUBMIT command, *Batch and Queue*, 3-15
- /NAME qualifier
 - \$PRINT card, *Batch and Queue*, 3-24
 - SHOW QUEUE command, *Batch and Queue*, 2-14
 - \$SUBMIT card, *Batch and Queue*, 3-24
 - SUBMIT command, *Batch and Queue*, 3-15
- /NAMES qualifier
 - LIBRARY command, *Program Development*, 6-10
- Naming conventions
 - DCL, *System Management*, 3-15
 - MCR, *System Management*, 3-15
- NAMOF\$ macro, *RMS-11 Macro*, C-2
- .NARG directive, *MACRO-11*, 6-13
 - summary, *MACRO-11*, 6-1
 - use to detect missing arguments, *MACRO-11*, 6-9
- NB\$-family symbol
 - declaring, *RMS-11 Macro*, C-2
- NB conditional assembly test, *MACRO-11*, 5-45
 - only comma valid as separator, *MACRO-11*, 5-49
- NBOF\$L macro, *I/O Operations*, 2-31
- Nbs parameter
 - device-specific function (tape driver), *I/O Drivers*, 6-7

Nbuf parameter

ADSWP: subroutine (K-series), *I/O Drivers*, 13-9

DASWP: subroutine

K-series, *I/O Drivers*, 13-13

LADRV, *I/O Drivers*, 12-9

DISWP: subroutine

K-series, *I/O Drivers*, 13-15

LADRV, *I/O Drivers*, 12-11

DOSWP: subroutine

K-series, *I/O Drivers*, 13-17

LADRV, *I/O Drivers*, 12-13

GTHIST: subroutine (K-series), *I/O Drivers*, 13-19

Nbu parameter

ADSWP: subroutine (LADRV), *I/O Drivers*, 12-3

Nchn parameter

ADSWP: subroutine

K-series, *I/O Drivers*, 13-10

LADRV, *I/O Drivers*, 12-5

DASWP: subroutine

K-series, *I/O Drivers*, 13-14

LADRV, *I/O Drivers*, 12-10

DISWP: subroutine (LADRV), *I/O Drivers*, 12-12

DOSWP: subroutine (LADRV), *I/O Drivers*, 12-14

ISTADC: subroutine (K-series), *I/O Drivers*, 13-25

SETADC: subroutine (LADRV), *I/O Drivers*, 12-20

.NCHR directive, *MACRO-11*, 6-14

summary, *MACRO-11*, 6-1

N command, *Debugging*, 2-8, 6-2, 6-3

NCT

TTDRV, *I/O Drivers*, 2-21

NDF conditional assembly test, *MACRO-11*, 5-45

Nearest Cylinder

definition, *Writing I/O Driver*, 1-17

NE conditional assembly test, *MACRO-11*, 5-45

Negation unary prefix operator

CFL expression, *Error Logging*, 5-14

:NE option

QUE /STA command, *System Management*, 3-37

N error

number not in current radix, *MACRO-11*, 2-13

Nes parameter

device-specific function (tape driver), *I/O Drivers*, 6-7

<NETNOD> symbol, *Indirect*, 2-25

<NETUIC> symbol, *Indirect*, 2-25

/NETUIC keyword

SET command, *MCR*, 3-173

SET command (VMR), *System Management*, 5-57

Network, *DCL*, 1-15

connecting to, *MCR*, 3-181

dial-up, *MCR*, 3-181

Network Command Terminal

See *NCT*

Network facility

RMSCNV utility, *RMS-11 Utilities*, 4-1

/NEW_LOG_FILE qualifier

SET ERROR_LOG command

SET ERROR_LOG command, *Error Logging*, 2-11

/NEW_VERSION qualifier

BRU utility, *Utilities*, 3-20

SET ERROR_LOG command, *Error Logging*, 2-4

SET ERROR-LOG command, *Error Logging*, 2-11

START/ERROR_LOG command, *Error Logging*, 2-4, 2-5

Next & Print command

EDI editor, *Utilities*, 7-31

/NEXT_JOB qualifier

START/PROCESSOR command, *System Management*, 3-37

Next command

EDI editor, *Utilities*, 7-30

Next command entry point, *Writing I/O Driver*, 4-60

Next-record context

See *Context*

NFS volume

error retries, *System Management*, 12-49

selecting for testing

IOX, *System Management*, 12-51, 12-58

NI definition

XEDRV, *I/O Drivers*, 10-27

NL device, *MCR*, 2-10, 2-11; *System Management*, 5-37

assigning CO to, *System Management*, 9-6

spooling to, *System Management*, 3-23

NLDRV, *I/O Drivers*, 8-1

example, *I/O Drivers*, 8-1

function, *I/O Drivers*, 8-1

- .NLIST BEX directive, *Program Development*, 2-6
- .NLIST directive, MACRO-11, 5-6
 - overriding with command line options, MACRO-11, 5-8
 - summary, MACRO-11, 5-2
 - table of arguments, MACRO-11, 5-7
- .NLIST TOC directive
 - suppresses table of contents, MACRO-11, 5-11
- NMBLK\$ macro
 - default filename block, *I/O Operations*, 2-29
 - example, *I/O Operations*, 2-31
- NML11 notes module, *Error Logging*, 4-9, A-7
- /NM switch, *Task Builder*, 10-33
 - PIP utility, *Utilities*, 12-21
 - QUE /SP command, *System Management*, 3-23
- /[NO]SERIAL qualifier
 - SET TERMINAL command, *DCL*, 3-48
- /[NO]SHAREABLE qualifier
 - MOUNT command, *DCL*, 5-50
- /[NO]CV switch
 - RMSRST utility, *RMS-11 Utilities*, 7-10
- /[NO]QU switch
 - RMSBCK utility, *RMS-11 Utilities*, 6-5 to 6-7, 6-10
 - RMSRST utility, *RMS-11 Utilities*, 7-6 to 7-8, 7-12
- NO attribute, *System Management*, 18-43
- NOAUTO option
 - INI keyword /BAD, *MCR*, 3-85
- /NOCACHE qualifier
 - use with MOUNT command, *System Management*, 15-2
- /NOCEX keyword
 - SET command, *MCR*, 3-174
- /NOCOPY qualifier
 - DATA command, *Batch and Queue*, 3-6
- NOCOTERM option
 - SET /COLOG command, *System Management*, 9-6
- .NOCROSS directive, MACRO-11, 5-16
 - relationship to /C[R] or /CROSS option, MACRO-11, 5-16
 - summary, MACRO-11, 5-2
- Node, *DCL*, 1-15
 - remote file specification, *RMS-11 User's Guide*, B-2
- NODEFER_WRITES option, *System Management*, 15-5
- /NODETAIL qualifier
 - ANALYZE/ERROR_LOG command, *Error Logging*, 3-13, 3-19
 - See also /FORMAT switch
- NODIRECTORY option, *System Management*, 15-6
- NODSK attribute, *Task Builder*, 3-30
- /NOECHO option
 - SET TERMINAL command, *Utilities*, C-3
- /NOER switch
 - RMSIFL utility, *RMS-11 Utilities*, 3-6
- NOGBL attribute, *Task Builder*, 3-30
- /NOINITIALIZE qualifier
 - BRU utility, *Utilities*, 3-21
- /NOLABEL qualifier
 - MOUNT command, *DCL*, 5-55
- Nolabel tape block size
 - tape driver, *I/O Drivers*, 6-17
- /NOLIMITING qualifier
 - SET ERROR_LOG command, *Error Logging*, 2-9
 - See also /-LIMIT switch
- START/ERROR_LOG command, *Error Logging*, 2-5
- See also /LOG switch
- /NOLOGFILE option
 - SET /COLOG command, *System Management*, 9-8
- NOLOGICAL option, *System Management*, 15-6
- /NOLOG switch
 - ELI, *Error Logging*, 2-7, 2-9
 - See also STOP/ERROR_LOG command
- /NOLO switch
 - QUE /SP command, *System Management*, 3-24
- /NOLOW job switch
 - QUE /MOD command, *Batch and Queue*, 2-19
- /NOLOW switch
 - PRI command, *Batch and Queue*, 2-3
- Non-DIGITAL device
 - driver support, *Error Logging*, 4-21
 - error logging, *Error Logging*, 4-27
- Nonexternal header, *Writing I/O Driver*, 6-7
- Nonoverlaid routines, *RMS-11 User's Guide*, 1-13, 8-2, 8-8 to 8-9
- Non-pool-resident, *Writing I/O Driver*, 6-7
- header, *Writing I/O Driver*, 6-9

Nonrecoverable error, *System Management*, 11-3

Non-RMS-11 files, *RMS-11 Intro*, 3-4

Nonsense interrupt logging, *Error Logging*, 4-23

/NOOBJECT qualifier
 FORTRAN command, *Program Development*, 7-3
 MACRO command, *Program Development*, 3-1, 3-7

No-op function mask, *Writing I/O Driver*, 4-18, 4-19

NOOVERLAY option, *System Management*, 15-6

/NOPRESERVE qualifier
 BRU utility, *Utilities*, 3-21

NOREAD_AHEAD option, *System Management*, 15-6

No report format
 RPT, *Error Logging*, 3-19

NOSAV argument
 for .PSECT, *MACRO-11*, 5-36

NO SCROLL command, *Program Development*, 3-6

NO SCROLL key, *DCL*, 3-15; *Introduction*, 1-16

/NOSO switch
 RMSIFL utility, *RMS-11 Utilities*, 3-8 to 3-10

No spool switch
 See /-SP

/NOSUPERSEDE qualifier
 BRU utility, *Utilities*, 3-21

Notes module
 device name, *Error Logging*, 4-34
 example, *Error Logging*, 4-60 to 4-61
 exiting, *Error Logging*, 4-35
 flow of, *Error Logging*, 4-34
 heading, *Error Logging*, 4-35
 MODULE statement, *Error Logging*, 4-34
 naming requirements, *Error Logging*, 4-34
 printing, *Error Logging*, 4-35
 procedures, *Error Logging*, 4-34 to 4-35
 PROCEDURE statement, *Error Logging*, 4-34
 table of, *Error Logging*, 4-9
 trapping unknown numbers, *Error Logging*, 4-35
 writing, *Error Logging*, 4-34 to 4-35

/NOVE switch
 FMT utility, *Utilities*, 9-4

NOVIRTUAL option, *System Management*, 15-6

/NOWARNINGS qualifier
 INITIALIZE/PROCESSOR command, *System Management*, 3-23

N parameter
 RMVBUF: subroutine
 K-series, *I/O Drivers*, 13-24
 LADRV, *I/O Drivers*, 12-20

NPR device
 drivers for (on PDP-11), *Writing I/O Driver*, 7-2

NRK67 notes module, *Error Logging*, 4-9, A-7

NRM05 notes module, *Error Logging*, 4-9, A-7

NRM23 notes module, *Error Logging*, 4-9, 4-60 to 4-61, A-7

NRZI even parity (tape driver), *I/O Drivers*, 6-15

/NSF keyword
 FIX command (VMR), *System Management*, 5-19

\$NSIER Executive routine, *Error Logging*, 4-23

/NS switch
 SLP utility, *Utilities*, 13-15

NT0310 notes module, *Error Logging*, 4-9, A-7

NTS11 notes module, *Error Logging*, 4-9, A-7

.NTYPE directive, *MACRO-11*, 6-15
 summary, *MACRO-11*, 6-2

NULL_KEY
 RMSDES utility, *RMS-11 Utilities*, 2-39

NULL_VALUE
 RMSDES utility, *RMS-11 Utilities*, 2-39

Null character
 cannot follow single or double quotation mark, *MACRO-11*, 5-19

Null device
 See NL device

Null device driver
 See NLDRV

Null key, *RMS-11 User's Guide*, 6-10;
 RMS-11 Intro, 3-10

/NULL qualifier
 initializing CLI with, *System Management*, 17-3

/NULL subkeyword
 COMMAND LINE INTERPRETER
 command, *MCR*, 3-43
 <NUMBER> symbol, *Indirect*, 2-11

Number sign (#)
 in cross-reference table, *MACRO-11*, 7-15

- Number sign (#) (cont'd.)
 - signifies octal number in RSX command string, *MACRO-11*, 7-5
 - special character in *MACRO-11*, *MACRO-11*, 2-2
 - used in absolute addressing mode, *MACRO-11*, 4-6
 - used in immediate addressing mode, *MACRO-11*, 4-5
 - Numeric data type
 - CFL, *Error Logging*, 5-5 to 5-7
 - Numeric expression, *Indirect*, 2-26
 - Numeric literal
 - CFL, *Error Logging*, 5-6
 - Numeric operator
 - CFL expression, *Error Logging*, 5-13 to 5-16
 - binary, *Error Logging*, 5-16
 - Numeric symbol, *Indirect*, 2-9, 2-26
 - comparing, *Indirect*, 2-66
 - decrementing, *Indirect*, 2-50
 - defining, *Indirect*, 2-41
 - incrementing, *Indirect*, 2-72
 - radix, *Indirect*, 2-27
 - setting, *Indirect*, 2-89
 - setting, *Indirect*, 2-88
 - substituting, *Indirect*, 2-27
 - testing, *Indirect*, 2-68
 - Numeric to ASCII conversion, *System Library*, 5-2
 - See also ASCII number conversion
 - binary byte to octal
 - (\$CBTMG), *System Library*, 5-10
 - binary date to decimal
 - (\$CBDAT), *System Library*, 5-2
 - binary to signed decimal
 - (\$CBDSG), *System Library*, 5-5
 - binary to signed octal
 - (\$CBOSG), *System Library*, 5-9
 - binary to unsigned decimal
 - (\$CBDMG), *System Library*, 5-3
 - binary to unsigned octal
 - (\$CBOMG), *System Library*, 5-8
 - double-precision binary to decimal
 - (\$CDDMG), *System Library*, 5-6
 - general purpose binary to ASCII (\$CBTA), *System Library*, 5-12
 - Radix-50 to ASCII (\$C5TA), *System Library*, 5-13
 - /NU switch
 - FLX utility, *Utilities*, 8-8
 - n variable, *Debugging*, 2-1; *XDT*, 2-10
 - /NV subswitch
 - (cont'd.)
 - PIP utility, *Utilities*, 12-37
 - <NXTSYM> symbol, *Indirect*, 2-25
-
-
- O\$-family symbol
 - declaring
 - ALL block, *RMS-11 Macro*, C-3 to C-4
 - DAT block, *RMS-11 Macro*, C-3 to C-4
 - FAB field offset, *RMS-11 Macro*, C-1
 - KEY block, *RMS-11 Macro*, C-3 to C-4
 - NAM block field offset, *RMS-11 Macro*, C-2
 - PRO block, *RMS-11 Macro*, C-3 to C-4
 - RAB, *RMS-11 Macro*, C-2
 - SUM block, *RMS-11 Macro*, C-3 to C-4
 - XAB, *RMS-11 Macro*, C-4
 - value
 - ALL block, *RMS-11 Macro*, 6-2
 - NAM block, *RMS-11 Macro*, 6-94
 - PRO block, *RMS-11 Macro*, 6-108
 - RAB, *RMS-11 Macro*, 6-103
 - SUM block, *RMS-11 Macro*, 6-145
 - /OA switch
 - RMSRST utility, *RMS-11 Utilities*, 7-9 to 7-10
 - Object code
 - assembling, *RMS-11 User's Guide*, 1-13, 8-1
 - compiling, *RMS-11 User's Guide*, 1-13, 8-1
 - Object file, *DCL*, 6-4
 - Object library
 - adding modules, *Program Development*, 6-9
 - creating a user, *Program Development*, 6-4, 6-6
 - default search of system, *Program Development*, 1-11, 4-2
 - DIGITAL-supplied, *Program Development*, 1-11
 - dual use, *Program Development*, 6-8
 - EXELIB.OLB, *Program Development*, 1-11
 - listing information, *Program Development*, 6-10, 6-11
 - OTS, *Program Development*, 7-1, 7-2
 - RMSLIB.OLB, *Program Development*, 1-11
 - SYSLIB.OLB, *Program Development*, 1-11
 - using to resolve undefined global symbols, *Program Development*, 6-7, 6-8
 - VMLIB.OLB, *Program Development*, 1-11
 - Object module, *Introduction*, 5-3, 5-5, 5-10
 - concatenated, *Program Development*, 4-3, 4-4

- Object module (cont'd.)
 - creating, *Task Builder*, A-1 to A-36
 - FORTTRAN IV, *Program Development*, 7-5
 - including, *Task Builder*, 11-36
 - input to TKB, *Program Development*, 4-1
 - linking, *Task Builder*, 2-2
 - MACRO-11, *Program Development*, 1-5, 3-4, 3-5, 3-6
 - patching, *Utilities*, 11-1
 - record types, *Task Builder*, A-1
 - relocatable, *Task Builder*, 2-2
 - specifying concatenated, *Task Builder*, 10-7, 11-23
 - storing in library, *Utilities*, 10-20
 - system library, *Introduction*, 5-10
- Object module library, *I/O Drivers*, 1-7; *DCL*, 6-33
 - specifying for task, *Task Builder*, 10-26, 11-28, 11-38
- Object Module Patch Utility
 - See PAT utility
- /OBJECT qualifier
 - FORTTRAN command, *Program Development*, 7-3, 7-7
 - LIBRARY command, *Program Development*, 0-2, 0-4
 - MACRO command, *Program Development*, 3-4
- Object Time System
 - See OTS
- OBJ file type, *Program Development*, 3-4, 7-5
- Obsolete
 - command line options, MACRO-11, 1-1
 - directives, MACRO-11, 1-1
- O command, *Debugging*, 2-9, 7-2; *XDT*, 2-14
 - ZAP utility, *Utilities*, 15-18
- OCOP attribute, *System Management*, 18-35
- <OCTAL> symbol, *Indirect*, 2-11
- Octal conversion
 - octal to binary
 - doubleword(.OD2CT), *System Library*, 4-3
 - octal to binary(\$COTB), *System Library*, 4-6
- Octal number
 - specifying, *MCR*, 1-2
- Octal operator, *Debugging*, 2-3, 2-6, 2-7
 - byte mode, *XDT*, 2-12
 - word mode, *XDT*, 2-12
- OCTAL print radix
 - CFL, *Error Logging*, 5-5
- Octal radix
 - initial default for numbers, MACRO-11, 2-13
- /OCT switch
 - DMP utility, *Utilities*, 5-6
- .OD2CT (Octal to binary doubleword), *System Library*, 4-3
- Odd address
 - at end of program sections, MACRO-11, 5-39
- .ODD directive, MACRO-11, 5-31
 - changes current location counter, MACRO-11, 5-31
 - summary, MACRO-11, 5-2
- ODL, *Task Builder*, 3-25 to 3-32
 - directives, *Task Builder*, 3-25
 - file, *Task Builder*, 3-25
 - command line, *Task Builder*, 3-25
 - creating, *Task Builder*, 3-39
 - specifying, *Task Builder*, 10-31, 11-49
 - indirect command file, *Task Builder*, 3-32
 - multiple tree
 - example, *Task Builder*, 3-33
 - operators, *Task Builder*, 3-26, 3-29
 - summary, *Task Builder*, 3-54 to 3-56
- ODT, *MCR*, 3-49; *Program Development*, 1-7
 - assigning device LUN, *Debugging*, 1-4
 - at sign, *Program Development*, 5-8
 - backslash (\), *Program Development*, 5-5
 - B command, *Program Development*, 5-6
 - breakpoint register, *Program Development*, 5-6
 - changing location contents, *Program Development*, 5-7
 - correcting input, *Program Development*, 5-3
 - dollar sign (\$), *Program Development*, 5-6, 5-7, 5-8
 - error conditions in task, *Program Development*, 5-8
 - examining locations, *Program Development*, 5-4
 - exiting, *Debugging*, 1-5
 - forming address, *Program Development*, 5-4
 - G command, *Program Development*, 5-6, 5-8
 - including in a task, *Program Development*, 5-1, 5-2
 - invoking, *Debugging*, 1-5
- LINE FEED key
 - closing location, *Program Development*, 5-5, 5-7

ODT

- LINE FEED key (cont'd.)
 - displaying word on stack, *Program Development*, 5-8
 - opening location, *Program Development*, 5-5, 5-7
- linking, *Debugging*, 1-2
- map use, *Program Development*, 5-2
- ODT.OBJ file, *Program Development*, 5-1
- overview, *Debugging*, 1-1
- P command, *Program Development*, 5-7
- question mark (?), *Program Development*, 5-3
- R command, *Program Development*, 5-3
- redirecting output, *Debugging*, 1-4
- relocation register, *Program Development*, 5-2
- setting breakpoints, *Program Development*, 5-6
- setting up a task with, *Program Development*, 1-7
- slash (/), *Program Development*, 5-4
- source listing use, *Program Development*, 5-4
- SST vector
 - declaring address, *Task Builder*, 12-25
- SST within, *Program Development*, 5-8
- terminating task execution, *Program Development*, 5-8
- underline (—) prompt, *Program Development*, 5-2
- X command, *Program Development*, 5-8
- ZAP utility, *Utilities*, 15-1
- ODTID module, *Debugging*, 1-3
- ODTV option, *Task Builder*, 12-25
- O error
 - .END, *MACRO-11*, 5-33
 - .ENDC, *MACRO-11*, 5-46
 - .IF directive nesting, *MACRO-11*, 5-46
 - .IFF, .IFT, .IFTF, *MACRO-11*, 5-46
 - .MCALL, *MACRO-11*, 6-22
 - .MDELETE, *MACRO-11*, 6-22
 - .MEXIT, *MACRO-11*, 6-4
 - .NARG, *MACRO-11*, 6-13
 - .NTYPE, *MACRO-11*, 6-15
- OFFLINE ALL command, *System Management*, 4-23
- OFFLINE command, *System Management*, 4-22
 - example, *System Management*, 4-24, 4-25
 - format, *System Management*, 4-23, 4-25
 - requirements, *System Management*, 4-24

- OFFLINE MEMORY command, *System Management*, 4-25
- Offline state
 - definition, *System Management*, 4-5
- Offline status flag, *System Management*, 4-13
- \$OFF macro, *RMS-11 Macro*, 2-11
- OFF option
 - SET /COLOG command, *System Management*, 9-5
- Offset, *Debugging*, 2-3
 - branch, *Debugging*, 7-2
 - calculating, *Debugging*, 2-9, 7-2; *XDT*, 2-14
 - instruction and data space, *Debugging*, 7-2
 - negative, *Debugging*, 7-2
 - PC-relative, *Debugging*, 7-2; *XDT*, 2-14
 - positive, *Debugging*, 7-2
 - symbolic
 - establishing, *Task Builder*, 5-19
- Offset mode, *Crash Dump Analyzer*, 3-1
- Offspring task
 - enabling (VTDRV), *I/O Drivers*, 3-5
 - VTDRV, *I/O Drivers*, 3-1
- OFID\$ macro, *I/O Operations*, 3-1
- OFID\$x macro
 - file processing, *I/O Operations*, 3-13
- OFNB\$ macro, *I/O Operations*, 3-1
- OFNB\$x macro
 - data-set descriptor, *I/O Operations*, 3-15
 - default filename block, *I/O Operations*, 3-15
 - file processing, *I/O Operations*, 3-14
- OLB file type, *Program Development*, 6-4
 - See also LBR utility
- OLRDF\$, *Crash Dump Analyzer*, C-49
- ON command
 - See also STOP, CONTINUE, and GOTO commands
 - default setting, *Batch and Queue*, 3-10
 - example, *Batch and Queue*, 3-10
 - format, *Batch and Queue*, 3-10
- .ONERR directive, *Indirect*, 2-74
- ONLINE ALL command, *System Management*, 4-26
- Online backup
 - description, *System Management*, 16-1
- ONLINE command, *System Management*, 4-26
 - examples, *System Management*, 4-27
 - formats, *System Management*, 4-26
 - restrictions, *System Management*, 4-27

- On-Line Debugging Tool
 - See ODT
- Online help file
 - See Help file
- ONLINE MEMORY command, *System Management*, 4-28
 - example, *System Management*, 4-28
 - format, *System Management*, 4-28
- Online state
 - definition, *System Management*, 4-5
 - status flag, *System Management*, 4-13
 - transition to, *System Management*, 4-26
- Online system
 - definition, *System Generation*, 1-11
- ON option
 - SET /COLOG command, *System Management*, 9-5
- OOB
 - TTDRV
 - clear, *I/O Drivers*, 2-64
 - hello, *I/O Drivers*, 2-64
 - include, *I/O Drivers*, 2-64
- ^O operator
 - for temporary octal radix, *MACRO-11*, 5-26
- OPE command
 - See OPENREGISTER command
- OPEN\$ macro, *I/O Operations*, 3-1
 - example, *I/O Operations*, 5-10
 - file processing, *I/O Operations*, 3-16
- OPEN\$R macro
 - example, *I/O Operations*, 5-9
 - shared access, *I/O Operations*, 1-14
- OPEN\$x macro
 - file processing, *I/O Operations*, 3-3, 3-8
 - format
 - file operations, *I/O Operations*, 3-5
- .OPENA directive, *Indirect*, 2-78
- OPEN command, *XDT*, 1-9
- .OPEN directive, *Indirect*, 2-76
- Open file processing, *I/O Operations*, 3-4
- Open file routine
 - by filename block, *I/O Operations*, 3-14
 - by ID, *I/O Operations*, 3-13
 - existing, *I/O Operations*, 3-9
 - for access, *I/O Operations*, 3-16
 - for modifying, *I/O Operations*, 3-17
 - for reading, *I/O Operations*, 3-16
 - for updating and extending, *I/O Operations*, 3-17
 - new, *I/O Operations*, 3-9
 - no supersede, *I/O Operations*, 3-16, 3-17
- Open line
 - XEDRV, *I/O Drivers*, 10-5
- OPEN LINE function
 - EDT editor, *Introduction*, 2-8
- \$OPEN macro, *RMS-11 Macro*, 5-72
- OPEN operation, *RMS-11 Macro*, 3-8, 5-66, 5-68 to 5-71, 5-73; *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
 - BDB requirement, *RMS-11 Macro*, 2-8
 - I/O buffer requirement, *RMS-11 Macro*, 2-7
 - IFAB requirement, *RMS-11 Macro*, 2-5
 - \$OPEN macro, *RMS-11 Macro*, 5-72
 - remote access, *RMS-11 User's Guide*, B-2 to B-3
 - wildcard loop, *RMS-11 Macro*, 3-11
- .OPENR directive, *Indirect*, 2-80
- OPENREGISTER command, *MCR*, 3-126
 - brief description, *MCR*, 1-7
 - format, *MCR*, 3-126
 - keywords
 - /AFF, *MCR*, 3-127
 - /CPU, *MCR*, 3-127
 - /DRV, *MCR*, 3-128
 - /KNL, *MCR*, 3-128
 - /KNLD, *MCR*, 3-128
 - /KNLI, *MCR*, 3-128
 - /REG, *MCR*, 3-128
 - /TASK, *MCR*, 3-128
 - /TASKD, *MCR*, 3-128
 - /TASKI, *MCR*, 3-128
 - parameters, *MCR*, 3-126
- Open Secondary command
 - EDI editor, *Utilities*, 7-31
- Operand field
 - definition of, *MACRO-11*, 1-4
 - valid formats, *MACRO-11*, 1-4
 - valid terminators, *MACRO-11*, 1-4
- Operating mode
 - defaults, *Indirect*, 2-53
 - disabling, *Indirect*, 2-52
 - enabling, *Indirect*, 2-53
 - list, *Indirect*, 2-53
 - testing, *Indirect*, 2-69
- Operating procedure (RSTS/RT-11), *MACRO-11*, 8-1
- Operating system, *RMS-11 User's Guide*, 1-13; *Introduction*, 1-1, 5-1
 - See also System
 - allocating system resources, *RMS-11 User's Guide*, 8-13
 - block locking, *RMS-11 User's Guide*, 3-6

Operating system (cont'd.)

- compatibility, *RMS-11 User's Guide*, 3-4
 - defaults, *RMS-11 User's Guide*, 2-2
 - FALs, *RMS-11 User's Guide*, B-3
 - multiuser, *Introduction*, 6-2
 - protection codes
 - and shared access, *RMS-11 User's Guide*, 2-5
 - real-time, *Introduction*, 6-2
 - remote access
 - RSTS/E, *RMS-11 User's Guide*, B-3
 - RSX-11M/M-PLUS, *RMS-11 User's Guide*, B-3
 - VAX/VMS, *RMS-11 User's Guide*, B-1 to B-3
 - return to, *Debugging*, 2-10
- Operation, *RMS-11 Macro*, 1-2; *RMS-11 Intro*, 4-1
- asynchronous, *RMS-11 User's Guide*, 2-17, 3-14, 4-14, 7-8, 8-2, 8-4, 8-7 to 8-8
 - block, *RMS-11 Intro*, 4-7
 - block stream, *RMS-11 Macro*, 4-12
 - CLOSE, *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
 - CONNECT, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - indexed files, *RMS-11 User's Guide*, 7-2
 - relative files, *RMS-11 User's Guide*, 4-7
 - sequential files, *RMS-11 User's Guide*, 3-7
 - CREATE, *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
 - and shared access, *RMS-11 User's Guide*, 2-6
 - file versions, *RMS-11 User's Guide*, A-3
 - remote access, *RMS-11 User's Guide*, B-2 to B-3
 - DELETE, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - and key position, *RMS-11 User's Guide*, 6-7
 - and shared access, *RMS-11 User's Guide*, 2-6
 - deferred write, *RMS-11 User's Guide*, 7-9
 - duplicate keys, *RMS-11 User's Guide*, 6-9
 - indexed files, *RMS-11 User's Guide*, 5-15, 7-3
 - relative files, *RMS-11 User's Guide*, 4-7
 - directory, *RMS-11 User's Guide*, 1-17; *RMS-11 Intro*, 4-1

Operation

directory (cont'd.)

- indexed files, *RMS-11 User's Guide*, 7-10
 - relative files, *RMS-11 User's Guide*, 4-15
 - sequential files, *RMS-11 User's Guide*, 3-15
- DISCONNECT, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
- indexed files, *RMS-11 User's Guide*, 7-3
 - relative files, *RMS-11 User's Guide*, 4-8
 - sequential files, *RMS-11 User's Guide*, 3-7
- DISPLAY, *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
- ERASE, *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
- remote access, *RMS-11 User's Guide*, B-2
- EXTEND, *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
- and shared access, *RMS-11 User's Guide*, 2-6
- file, *RMS-11 User's Guide*, 1-18; *RMS-11 Intro*, 4-2
- indexed files, *RMS-11 User's Guide*, 7-10
 - optimizations, *RMS-11 User's Guide*, 8-10
 - relative files, *RMS-11 User's Guide*, 4-15
 - sequential files, *RMS-11 User's Guide*, 3-15
- FIND, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
- access modes, *RMS-11 Intro*, 4-6
 - and bucket locking, *RMS-11 User's Guide*, 2-8
 - and shared access, *RMS-11 User's Guide*, 2-6, 2-10
 - and stream records, *RMS-11 User's Guide*, 2-16
 - deferred write, *RMS-11 User's Guide*, 7-9
 - indexed files, *RMS-11 User's Guide*, 5-13, 5-17, 7-3
 - key access, *RMS-11 User's Guide*, 1-16
 - relative files, *RMS-11 User's Guide*, 4-8
 - RFA access, *RMS-11 User's Guide*, 1-16
 - sequential access, *RMS-11 User's Guide*, 1-16

Operation

FIND (cont'd.)

- sequential files, *RMS-11 User's Guide*, 3-7
- FLUSH, *RMS-11 User's Guide*, 1-15;
RMS-11 Intro, 4-4
- relative files, *RMS-11 User's Guide*, 4-10
- sequential files, *RMS-11 User's Guide*, 3-9
- FREE, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - and shared access, *RMS-11 User's Guide*, 2-10
- from high-level languages, *RMS-11 Intro*, 4-7
- GET, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - access modes, *RMS-11 Intro*, 4-6
 - and bucket locking, *RMS-11 User's Guide*, 2-8
 - and shared access, *RMS-11 User's Guide*, 2-6, 2-10
 - and stream records, *RMS-11 User's Guide*, 2-16 to 2-17
 - deferred write, *RMS-11 User's Guide*, 7-9
 - indexed files, *RMS-11 User's Guide*, 5-13, 5-17
 - key access, *RMS-11 User's Guide*, 1-16
 - locate mode, *RMS-11 User's Guide*, 3-14, 4-13, 7-8
 - move mode, *RMS-11 User's Guide*, 3-13, 4-12, 7-7
 - relative files, *RMS-11 User's Guide*, 4-10
 - RFA access, *RMS-11 User's Guide*, 1-16
 - sequential access, *RMS-11 User's Guide*, 1-16
 - sequential files, *RMS-11 User's Guide*, 3-9
- OPEN, *RMS-11 User's Guide*, 1-18;
RMS-11 Intro, 4-2
 - remote access, *RMS-11 User's Guide*, B-1 to B-2
- optimizations, *RMS-11 User's Guide*, 8-10
- PARSE, *RMS-11 Intro*, 4-1
- PUT, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - access modes, *RMS-11 Intro*, 4-6
 - and key position, *RMS-11 User's Guide*, 6-7

Operation

PUT (cont'd.)

- and shared access, *RMS-11 User's Guide*, 2-6
- and stream records, *RMS-11 User's Guide*, 2-17
- deferred write, *RMS-11 User's Guide*, 7-9
- duplicate keys, *RMS-11 User's Guide*, 6-9
- indexed files, *RMS-11 User's Guide*, 5-10, 5-17, 7-5, 7-9
- initial allocation, *RMS-11 User's Guide*, 4-4
- key access, *RMS-11 User's Guide*, 1-16
- locate mode, *RMS-11 User's Guide*, 3-14
- mass insertion, *RMS-11 User's Guide*, 7-9
- move mode, *RMS-11 User's Guide*, 3-13, 4-12, 7-7
- relative files, *RMS-11 User's Guide*, 4-11
- sequential access, *RMS-11 User's Guide*, 1-16
- sequential files, *RMS-11 User's Guide*, 3-10
- READ, *RMS-11 Intro*, 4-7
 - access modes, *RMS-11 Intro*, 4-7
- record, *RMS-11 User's Guide*, 1-10, 1-15;
RMS-11 Intro, 4-4
 - and I/O costs, *RMS-11 User's Guide*, 5-17
 - and indexed files, *RMS-11 User's Guide*, 5-16
 - indexed files, *RMS-11 User's Guide*, 7-2
 - optimizations, *RMS-11 User's Guide*, 8-10
 - relative files, *RMS-11 User's Guide*, 4-7
 - sequential files, *RMS-11 User's Guide*, 3-7
- REWIND, *RMS-11 User's Guide*, 1-15;
RMS-11 Intro, 4-4
 - indexed files, *RMS-11 User's Guide*, 7-6
 - relative files, *RMS-11 User's Guide*, 4-12
 - sequential files, *RMS-11 User's Guide*, 3-11
- routine
 - calling, *RMS-11 Macro*, 2-14
 - return, *RMS-11 Macro*, 2-15
- SEARCH, *RMS-11 Intro*, 4-1

Operation (cont'd.)

- SPACE, *RMS-11 Intro*, 4-7
 - access modes, *RMS-11 Intro*, 4-7
- stream, *RMS-11 User's Guide*, 1-15;
RMS-11 Intro, 4-4
 - indexed files, *RMS-11 User's Guide*, 7-2
 - relative files, *RMS-11 User's Guide*, 4-7
 - sequential files, *RMS-11 User's Guide*, 3-7
- synchronous, *RMS-11 User's Guide*, 8-2
- TRUNCATE, *RMS-11 User's Guide*, 1-15;
RMS-11 Intro, 4-4
 - and shared access, *RMS-11 User's Guide*, 2-6
 - sequential files, *RMS-11 User's Guide*, 3-12
- UPDATE, *RMS-11 User's Guide*, 1-15;
RMS-11 Intro, 4-4
 - and record size, *RMS-11 User's Guide*, 2-16
 - and shared access, *RMS-11 User's Guide*, 2-6, 2-10
 - and stream records, *RMS-11 User's Guide*, 2-17
 - changeable keys, *RMS-11 User's Guide*, 6-10
 - deferred write, *RMS-11 User's Guide*, 7-9
 - duplicate keys, *RMS-11 User's Guide*, 6-9
 - indexed files, *RMS-11 User's Guide*, 5-14, 7-6
 - move mode, *RMS-11 User's Guide*, 3-13 to 3-14, 4-12 to 4-13, 7-7 to 7-8
 - relative files, *RMS-11 User's Guide*, 4-12
 - sequential files, *RMS-11 User's Guide*, 3-12
- using, *RMS-11 Macro*, 2-10
- WRITE, *RMS-11 Intro*, 4-7
 - access modes, *RMS-11 Intro*, 4-7
 - and shared access, *RMS-11 User's Guide*, 2-6
- Operation macro, *RMS-11 Macro*, 1-2, 2-10
- Operator, *Debugging*, 2-3, 2-4
 - See also SLP utility
 - apostrophe ('), *Debugging*, 2-6, 4-6; *XDT*, 2-12
 - arithmetic, *Debugging*, 2-3
 - ASCII
 - byte mode, *Debugging*, 4-6

Operator

- ASCII (cont'd.)
 - word mode, *Debugging*, 4-6
- backslash (\), *Debugging*, 2-7, 4-2, 4-3;
XDT, 2-12
- byte mode
 - ASCII, *Debugging*, 2-6; *XDT*, 2-12
 - octal, *Debugging*, 2-7, 4-2; *XDT*, 2-12
- CFL expression, *Error Logging*, 5-9 to 5-16
- equal sign (=), *Debugging*, 7-2
- minus sign (-), *Debugging*, 2-3, 2-4; *XDT*, 2-10
- ODL, *Task Builder*, 3-26
 - comma (,), *Task Builder*, 3-26
 - exclamation point (!), *Task Builder*, 3-26, 3-29
 - hyphen (-), *Task Builder*, 3-26
- percent sign (%), *Debugging*, 2-6, 4-7;
XDT, 2-12
- plus sign (+), *Debugging*, 2-3, 2-4; *XDT*, 2-10
- quotation mark ("), *Debugging*, 2-6, 4-6;
XDT, 2-12
- Radix-50
 - word mode, *Debugging*, 4-7
- slash, *Debugging*, 4-3
- slash (/), *Debugging*, 2-6, 4-2; *XDT*, 2-12
- space, *XDT*, 2-10
- word mode
 - ASCII, *Debugging*, 2-6; *XDT*, 2-12
 - octal, *Debugging*, 2-6, 4-2; *XDT*, 2-12
 - Radix-50, *Debugging*, 2-6; *XDT*, 2-12
- Operator field
 - definition of, *MACRO-11*, 1-3
 - implicit .WORD if blank, *MACRO-11*, 5-18
 - valid formats, *MACRO-11*, 1-3
 - valid terminators, *MACRO-11*, 1-3
- OPNS\$ macro, *I/O Operations*, 3-1
- OPNS\$R macro
 - shared access, *I/O Operations*, 1-13
- OPNS\$x macro
 - file processing, *I/O Operations*, 3-11
- OPNT\$D macro, *I/O Operations*, 3-13
- OPNT\$ macro, *I/O Operations*, 3-1
- OPNT\$W macro
 - file processing, *I/O Operations*, 3-12
- Optimization
 - allocating system resources, *RMS-11 User's Guide*, 8-13
 - application design, *RMS-11 User's Guide*, 2-11

Optimization (cont'd.)

DELETE operation, *RMS-11 User's Guide*, 6-7

disk usage, *RMS-11 User's Guide*, 8-13

operations, *RMS-11 User's Guide*, 8-10

overlays, *RMS-11 User's Guide*, 8-1

program development, *RMS-11 User's Guide*, 8-9

PUT operation, *RMS-11 User's Guide*, 6-7

task building, *RMS-11 User's Guide*, 8-10

virtual-to-logical block mapping, *RMS-11 User's Guide*, 8-11

window turning, *RMS-11 User's Guide*, 8-12

Option, *Task Builder*, 1-9

See also individual option entries

entering, *Task Builder*, 1-9

general form, *Task Builder*, 1-10

including in indirect command file, *Task Builder*, 1-12

list of obsolete, *MACRO-11*, 1-1

TKB

categories, *Task Builder*, 12-1

prompting for, *Task Builder*, 11-48

/OPTION qualifier, *Task Builder*, 11-48

/OPT keyword

SET command, *MCR*, 3-174

SET command (VMR), *System Management*, 5-57

ORG\$ macro, *RMS-11 Macro*, 2-2

ORGANIZATION

RMSDES utility, *RMS-11 Utilities*, 2-31

Organization

See File organization

OR operator

special meaning within .IF/NDF

conditional, *MACRO-11*, 5-45

summary, *MACRO-11*, 2-4

OTS

Fast Map routine, *Task Builder*, 4-19

library, *Program Development*, 7-1, 7-2

Outfile

RMSBCK utility, *RMS-11 Utilities*, 6-3

RMSCNV utility, *RMS-11 Utilities*, 4-4

RMSDSP utility, *RMS-11 Utilities*, 5-3

RMSIFL utility, *RMS-11 Utilities*, 3-3

RMSRST utility, *RMS-11 Utilities*, 7-3

/OUT keyword

HELP command, *MCR*, 3-73

Out-of-band character set

See OOB

Output

buffer

intermediate (TTDRV), *I/O Drivers*, 2-81

initiating

single analog (K-series), *I/O Drivers*, 13-7

resuming by CTRL/Q (TTDRV), *I/O Drivers*, 2-71

suppressing (TTDRV), *I/O Drivers*, 2-71

suspending by CTRL/S (TTDRV), *I/O Drivers*, 2-71

Output file switch

RMSBCK utility, *RMS-11 Utilities*, 6-6

RMSIFL utility, *RMS-11 Utilities*, 3-5

RMSRST utility, *RMS-11 Utilities*, 7-7

Output listing limit switch

See /LIMIT

Output On/Off command

EDI editor, *Utilities*, 7-32

/OUTPUT qualifier

SHOW ERROR_LOG command, *Error Logging*, 2-13

See also /SHOW switch

/OUTVOLUME qualifier

BRU utility, *Utilities*, 3-21

OVCTC module, *Task Builder*, 4-17, 5-61

OVCTL module, *Task Builder*, 4-17, 5-61

OVCTR module, *Task Builder*, 4-17, 5-61

OVDAT module, *Task Builder*, 4-17, 5-62

Overflow mode, *Indirect*, 2-55

Overhead system TF.RPR

TTDRV, *I/O Drivers*, 2-16

Overlapped I/O

completion, *System Management*, 1-9

disk driver, *I/O Drivers*, 4-8

Overlapped Seek I/O, *Writing I/O Driver*, 1-10

database structures, *Writing I/O Driver*, 2-8

data transfers, *Writing I/O Driver*, 1-10

difficulty factor, *Writing I/O Driver*, 1-10

executing parallel operations, *Writing I/O Driver*, 1-10

Overlay, *RMS-11 User's Guide*, 8-2; *Task Builder*, 2-11

and disk use, *RMS-11 User's Guide*, 8-14

building, *Task Builder*, 3-44 to 3-54

cross-referencing, *Task Builder*, 4-13

data caching, *MCR*, 3-112, 3-160

defining a multiple tree, *Task Builder*, 3-33

Overlay (cont'd.)

- disk-resident, *RMS-11 User's Guide*, 1-13, 8-3, 8-8 to 8-9; *Task Builder*, 3-2 to 3-7, 4-1
 - loading, *Task Builder*, 3-17, 4-1
 - automatically, *Task Builder*, 4-2 to 4-7
 - manually, *Task Builder*, 4-8 to 4-12
 - MCR
 - processing a command line, MCR, 1-4
 - memory-resident, *RMS-11 User's Guide*, 1-13, 8-3, 8-6 ; MCR, 3-143; *Task Builder*, 3-7 to 3-16, 4-1
 - fast-mapping, *Task Builder*, 4-19
 - mapping, *Task Builder*, 10-20, 11-19
 - shared region, *Task Builder*, 5-15
 - specifying for task, *Task Builder*, 10-37, 11-54
 - multiple
 - example, *Task Builder*, 3-33 to 3-37
 - path loading, *Task Builder*, 4-4
 - run-time
 - Fast Map routine, *Task Builder*, 4-19 to 4-20
 - run-time routines, *Task Builder*, 3-21, 4-15
 - comparing, *Task Builder*, 4-17
 - segment, *Task Builder*, 3-2
 - naming, *Task Builder*, 3-30
 - structure, *Task Builder*, 3-1, 3-2, 3-21
 - tree, *Task Builder*, 3-17
 - multiple, *Task Builder*, 3-32
 - defining, *Task Builder*, 3-33
 - example, *Task Builder*, 3-33 to 3-37
 - window block, *Task Builder*, 3-54
- /OVERLAY_DESCRIPTION qualifier, *Task Builder*, 11-49
- Overlay and disk usage, *RMS-11 User's Guide*, 8-2
- Overlay command
 - EDI editor, *Utilities*, 7-32
- Overlay Description Language
 - See ODL
- OVERLAY option, *System Management*, 15-6
 - default extent size for, *System Management*, 15-6
 - MOUNT /CACHE command, MCR, 3-112
 - SET /CACHE command, MCR, 3-160
- Overlay run-time system
 - See also OTS
 - cluster library, *Task Builder*, 5-61
 - database, *Task Builder*, 5-15

Overprint

- VFC (LPDRV), *I/O Drivers*, 7-6
- OVFCTC module, *Task Builder*, 4-17
- OVFCTL module, *Task Builder*, 4-17
- OVFCTR module, *Task Builder*, 4-17
- OVFIDC module, *Task Builder*, 4-17
- OVFIDL module, *Task Builder*, 4-17
- OVFIDR module, *Task Builder*, 4-17
- OVIDC module, *Task Builder*, 4-17, 5-62
- OVIDL module, *Task Builder*, 4-17, 5-61
- OVIDR module, *Task Builder*, 4-17, 5-61
- /OVLP keyword
 - SET command, MCR, 3-174
- /OVRACC keyword
 - MOUNT command, MCR, 3-121
- OVR argument
 - for .PSECT, *MACRO-11*, 5-35
 - if section ends with odd address, *MACRO-11*, 5-39
 - use for data sharing, *MACRO-11*, 5-38
- /OVREXP keyword
 - MOUNT command, MCR, 3-121
- /OVRFSID keyword
 - MOUNT command, MCR, 3-121
- /OVR keyword
 - HOME command, MCR, 3-81
 - MOUNT command, MCR, 3-114, 3-121
- OVR option
 - INI keyword /BAD, MCR, 3-86
- /OVR switch
 - BAD utility, *Utilities*, 2-5
 - FMT utility, *Utilities*, 9-4
- OWNER
 - RMSDES utility, *RMS-11 Utilities*, 2-34
- /OWNER_UIC qualifier
 - SHOW QUEUE command, *Batch and Queue*, 2-14
- Owner ID field tape, *I/O Operations*, G-2
- /OWNER keyword
 - HOME command, MCR, 3-81
 - INITVOLUME command, MCR, 3-90
 - USER FILE DIRECTORY command, MCR, 3-209
- OWNER setup command, *System Management*, 7-11

P

- P1 conditional assembly test, *MACRO-11*, 5-45

- P1 parameter
 - XEDRV
 - IO.XIN function, *I/O Drivers*, 10-20
 - IO.XOP function, *I/O Drivers*, 10-6
 - IO.XRC function, *I/O Drivers*, 10-16
 - IO.XSC function, *I/O Drivers*, 10-7
 - IO.XTM function, *I/O Drivers*, 10-12
- P2 conditional assembly test, *MACRO-11*, 5-45
- P2 parameter
 - XEDRV
 - IO.XOP function, *I/O Drivers*, 10-6
 - IO.XRC function, *I/O Drivers*, 10-16
 - IO.XSC function, *I/O Drivers*, 10-7
 - IO.XTM function, *I/O Drivers*, 10-12
- P3 parameter
 - XEDRV
 - IO.XOP function, *I/O Drivers*, 10-6
 - IO.XRC function, *I/O Drivers*, 10-16
 - IO.XTM function, *I/O Drivers*, 10-12
- P4 parameter
 - XEDRV
 - IO.XRC function, *I/O Drivers*, 10-16
 - IO.XTM function, *I/O Drivers*, 10-12
- P5 parameter
 - XEDRV
 - IO.XRC function, *I/O Drivers*, 10-16
 - IO.XTM function, *I/O Drivers*, 10-12
- P6 parameter
 - XEDRV
 - IO.XRC function, *I/O Drivers*, 10-16
 - IO.XTM function, *I/O Drivers*, 10-12
- P\$BDB macro
 - argument computation, *RMS-11 Macro*, 2-8
 - format, *RMS-11 Macro*, 2-4
- P\$BUF macro
 - argument computation, *RMS-11 Macro*, 2-7
 - format, *RMS-11 Macro*, 2-4
- P\$FAB macro
 - argument computation, *RMS-11 Macro*, 2-5
 - format, *RMS-11 Macro*, 2-4
- P\$-family macro
 - declaring, *RMS-11 Macro*, C-2
- P\$IDX macro
 - argument computation, *RMS-11 Macro*, 2-5
 - format, *RMS-11 Macro*, 2-4
- P\$RAB macro
 - argument computation, *RMS-11 Macro*, 2-5
 - format, *RMS-11 Macro*, 2-4
- P\$RABX macro
 - argument computation, *RMS-11 Macro*, 2-5 to 2-6
- P\$RABX macro (cont'd.)
 - format, *RMS-11 Macro*, 2-4
- Packed decimal key, *RMS-11 User's Guide*, 6-6
- .PACKED directive, *MACRO-11*, 5-24
 - changes current location counter, *MACRO-11*, 5-31
 - summary, *MACRO-11*, 5-2
- Packet identification number, *Error Logging*, 3-1, 3-4, 3-6, 3-10
- Packet selection
 - ELI, *Error Logging*, 2-6
 - all packets, *Error Logging*, 2-6
 - control packets, *Error Logging*, 2-6
 - CPU events, *Error Logging*, 2-6
 - default, *Error Logging*, 2-6
 - memory events, *Error Logging*, 2-6
 - peripheral devices, *Error Logging*, 2-6
 - system events, *Error Logging*, 2-6
 - RPT, *Error Logging*, 3-8, 3-11
- PACKET statement
 - CFL, *Error Logging*, 5-27
- /PACKET switch
 - RPT, *Error Logging*, 3-5, 3-10
 - See also /ENTRY qualifier
 - multiple arguments, *Error Logging*, 3-5
 - processing, *Error Logging*, 4-4
- Pad character
 - RMSIFL utility, *RMS-11 Utilities*, 3-6
 - tape driver, *I/O Drivers*, 6-17
- Padding character
 - RMSCNV utility, *RMS-11 Utilities*, 4-12
- Pad enable bit
 - XEDRV
 - transmitting, *I/O Drivers*, 10-3
- Page
 - RMD
 - definition, *System Management*, 7-1
 - display, *System Management*, 7-1
 - setup, *System Management*, 7-2
 - /PAGE_COUNT qualifier
 - PRINT command, *Batch and Queue*, 2-3
 - SET QUEUE command, *Batch and Queue*, 2-19
- Page Address Register
 - See PAR
- Page command
 - EDI editor, *Utilities*, 7-33
- Page Description Register
 - See PDR

- .PAGE directive, *Program Development*, 2-6;
 - MACRO-11, 5-12
 - implicit with .INCLUDE, MACRO-11, 5-50
 - inside macro definition, MACRO-11, 6-4
 - summary, MACRO-11, 5-2
- Page eject
 - if .PAGE directive encountered, MACRO-11, 5-12
 - if form feed encountered, MACRO-11, 5-12
 - if more than 58 lines, MACRO-11, 5-12
 - if new source file, MACRO-11, 5-12
 - operation of form feed inside macro definition, MACRO-11, 6-4
 - VFC (LPDRV), *I/O Drivers*, 7-6
- Page Find command
 - EDI editor, *Utilities*, 7-33
- PAGE function
 - EDT editor, *Introduction*, 2-7
- Page Locate command
 - EDI editor, *Utilities*, 7-33
- Page locate command
 - EDI editor, *Program Development*, 2-14
- /PAGE qualifier
 - START/PROCESSOR command, *System Management*, 3-37
- Paging, *RMS-11 User's Guide*, 8-10
 - memory
 - See Virtual memory management
- /PA job switch
 - QUE /MOD command, *Batch and Queue*, 2-19
- :PA option
 - QUE /STA command, *System Management*, 3-37, 3-38
- /PAR, *Crash Dump Analyzer*, 2-4, 2-6
- PAR, *Task Builder*, 2-16; *Writing I/O Driver*, 1-2
- Parallel communication link driver
 - See PCL11
- Parallel unit operation
 - database structures, *Writing I/O Driver*, 2-8
- Parameter
 - displaying system, *DCL*, 8-8 to 8-9
 - IOX
 - displaying default, *System Management*, 12-36
 - exercising
 - NFS volume, *System Management*, 12-68
 - setting, *System Management*, 12-51, 12-58

- Parameter
 - IOX
 - setting (cont'd.)
 - Files-11 volumes, *System Management*, 12-63
 - magnetic tape, *System Management*, 12-65
 - NFS volumes, *System Management*, 12-65
 - QIO\$ basic syntax
 - function-dependent, *I/O Drivers*, 1-6
 - optional, *I/O Drivers*, 1-6
 - required argument, *I/O Drivers*, 1-6
 - setting system, *DCL*, 8-5 to 8-7
 - syntax, *DCL*, 1-14
 - use in command line, *MCR*, 1-2
- Parameter2 parameter
 - TTDRV, *I/O Drivers*, 2-12
 - IO.ATA function, *I/O Drivers*, 2-23
- Parameter commands
 - IOX
 - description, *System Management*, 12-6
- PARAMETERLIST command
 - IOX, *System Management*, 12-36
 - displaying buffer space statistics, *System Management*, 12-36
 - displaying default parameters, *System Management*, 12-36
 - examples, *System Management*, 12-36 to 12-39
 - format of display, *System Management*, 12-36

- Parameters
- VMR, *System Management*, 5-4
- PAR command, *System Management*, 8-15
- See also PARTITION DEFINITIONS command
- format, *System Management*, 8-15
- VMR
 - definition, *System Management*, 5-33
 - example, *System Management*, 5-34
 - format, *System Management*, 5-33
- Parent/offspring tasking, *Executive*, 4-1
- chaining, *Executive*, 4-2, 5-191, 5-225
- connecting, *Executive*, 4-1, 5-304
- directives, *Executive*, 4-1
- requesting task, *Executive*, 5-241, 5-304
- returning status, *Executive*, 4-2, 4-3
- sending data, *Executive*, 5-304
- sending send-data packet, *Executive*, 5-225
- spawning, *Executive*, 4-1, 4-4
- synchronizing, *Executive*, 5-42

- Parent task
 - VTDRV, *I/O Drivers*, 3-1
- Parity checking, *MCR*, 3-177
- Parity error
 - uncorrectable, *System Management*, 11-5
- /PARITY keyword
 - SET command, *MCR*, 3-176
 - SET command (VMR), *System Management*, 5-60
- Parity support, *System Management*, 1-7
- /PAR keyword
 - INSTALL command, *MCR*, 3-97
 - LOA command (VMR), *System Management*, 5-30
 - LOAD command, *MCR*, 3-104
 - RUN command, *MCR*, 3-144
 - SET command, *MCR*, 3-175
 - SET command (VMR), *System Management*, 5-58 to 5-60
- /PAR keyword (VMR)
 - SET command
 - saving secondary pool, *System Management*, 8-18
- /PARM keyword
 - MOUNT command, *MCR*, 3-114, 3-121
- PAR option, *Task Builder*, 5-3, 12-26
- PARS1M control file module, *Error Logging*, 4-4, 4-11, A-7
- PARS2M control file module, *Error Logging*, 4-4, 4-11, A-7
- PARS3M control file module, *Error Logging*, 4-4, 4-11, A-7
- PARSE
 - remote access, *RMS-11 User's Guide*, B-1
- Parse block
 - format, *Executive*, 5-98
 - returning, *Executive*, 5-97, 5-157, 5-163
- .PARSE directive, *Indirect*, 2-82
- Parse FCS directive, *Executive*, 5-157
- \$PARSE macro, *RMS-11 Macro*, 5-86
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11, 7-15
- PARSEM control file module, *Error Logging*, 3-23, 4-4, 4-11, A-7
- PARSE operation, *RMS-11 Macro*, 3-6;
 - RMS-11 User's Guide*, 1-17;
 - RMS-11 Intro*, 4-1
- BDB requirement, *RMS-11 Macro*, 2-8
- I/O buffer requirement, *RMS-11 Macro*, 2-7
- IFAB requirement, *RMS-11 Macro*, 2-5
- \$PARSE macro, *RMS-11 Macro*, 5-86
- PARSE operation (cont'd.)
 - remote access, *RMS-11 User's Guide*, B-1
 - wildcard initialization, *RMS-11 Macro*, 3-10
- Parse RMS directive, *Executive*, 5-163
- .PARSE routine
 - device and unit translation, *I/O Operations*, 4-12
 - logical name translation, *I/O Operations*, 4-10
- Parser processing, *System Management*, 18-13
- Parser program
 - TPARS, *I/O Operations*, 7-12
 - processing steps, *I/O Operations*, 7-12
- Partition
 - address, *MCR*, 2-19
 - accessing, *MCR*, 3-128
 - allocating space in, *MCR*, 3-96
 - base address, *Crash Dump Analyzer*, 3-15
 - cache
 - specifying, *MCR*, 3-111, 3-159
 - common, *MCR*, 3-94, 3-130; *System Management*, 5-26
 - conventions, *System Management*, 1-1
 - creating, *MCR*, 3-175; *System Management*, 5-51
 - definition, *MCR*, 2-19
 - displaying, *MCR*, 3-175
 - fragmentation, *System Management*, 1-3
 - causes, *System Management*, 1-3
 - GEN, *MCR*, 3-97, 3-104
 - description, *System Management*, 7-7
 - getting parameters, *Executive*, 5-134
 - information, *Indirect*, 2-98
 - loading device driver, *MCR*, 3-104
 - loading region in, *System Management*, 5-18
 - main, *System Management*, 15-5
 - memory, *MCR*, 2-19; *System Management*, 1-1
 - modifying, *System Management*, 5-52
 - name, *Crash Dump Analyzer*, 3-15; *MCR*, 2-19
 - naming, *MCR*, 3-97
 - overriding, *System Management*, 5-23
 - PCB address, *Crash Dump Analyzer*, 3-15
 - read-only
 - specifying, *Task Builder*, 12-34
 - regions, *System Management*, 1-1
- SECPOL
 - description, *System Management*, 7-7
- size, *MCR*, 2-19, 3-175
 - setting, *MCR*, 3-186

Partition (cont'd.)

- size and location
 - RMD Memory display, *System Management*, 7-8
- status flags, *Crash Dump Analyzer*, 3-26
- SYSPAR
 - description, *System Management*, 7-7
- system, MCR, 3-143, 3-190
- system memory, DCL, 7-46 to 7-52
- task, MCR, 2-19
 - allocating, MCR, 2-19
 - increasing dynamic region, MCR, 3-96
 - installing, MCR, 3-144
 - relationship between, MCR, 2-19
 - specifying, *Task Builder*, 12-26
- type, MCR, 2-19; *System Management*, 5-59
 - DEV, MCR, 3-175
 - DIAG, MCR, 3-175
 - SYS, MCR, 3-175
- user, MCR, 3-157
- waiting tasks, *System Management*, 1-1
- Partition Control Block, *Crash Dump Analyzer*, 3-26 ; MCR, 3-24, 3-106
 - See also PCB
 - address, *Crash Dump Analyzer*, 3-24; MCR, 3-39
 - pointer to, *Crash Dump Analyzer*, 3-26
 - switch
 - See /PCB, /PAR
- PARTITION DEFINITIONS command, MCR, 3-130
 - See also PAR command
 - brief description, MCR, 1-6
 - format, MCR, 3-130
- Partition display
 - contents, *System Management*, 5-33
- Partition information dump
 - attachment descriptor, *Crash Dump Analyzer*, 3-27
 - individual, *Crash Dump Analyzer*, 3-26
 - system, *Crash Dump Analyzer*, 3-24
 - wait queue, *Crash Dump Analyzer*, 3-27
- Pass 1
 - what happens, MACRO-11, 1
- Pass 2
 - what happens, MACRO-11, 2
- Password, DCL, 3-4; *Introduction*, 1-5, 3-11
 - account, MCR, 3-177
 - adding to account entry, *System Management*, 2-4

Password (cont'd.)

- changing, MCR, 2-22, 3-177; *System Management*, 2-2, 2-11; DCL, 3-10
- characters, *System Management*, 2-4
- contained in account entry, *System Management*, 2-1
- displaying, *System Management*, 2-8, 2-10
- encryption, MCR, 3-177
- maximum length, MCR, 3-177
- task, MCR, 3-177
- \$PASSWORD card
 - format, *Batch and Queue*, 3-26
- /PASSWORD keyword
 - SET command, MCR, 3-177
- Paste command
 - EDI editor, *Utilities*, 7-34
- PASTE function
 - EDT editor, *Introduction*, 2-9
- /PASTHRU keyword
 - SET command, MCR, 3-177
 - SET command (VMR), *System Management*, 5-61
- /PA switch
 - PRI command, *Batch and Queue*, 2-3
- Patch
 - declaring, *Task Builder*, 12-6, 12-13, 12-19
- Patch level
 - RMSBCK utility, *RMS-11 Utilities*, 6-5
 - RMSCNV utility, *RMS-11 Utilities*, 4-9
 - RMSDEF utility, *RMS-11 Utilities*, A-5
 - RMSDSP utility, *RMS-11 Utilities*, 5-5
 - RMSIFL utility, *RMS-11 Utilities*, 3-5
- Path loading, *Task Builder*, 4-4
- /PAT switch
 - BAD utility, *Utilities*, 2-5
- Pattern
 - IOX
 - altering, *System Management*, 12-40
 - displaying, *System Management*, 12-40
- PATTERN command
 - IOX, *System Management*, 12-40
 - data patterns, *System Management*, 12-40
 - examples, *System Management*, 12-41
 - initial default pattern, *System Management*, 12-41
 - Interactive mode
 - restriction, *System Management*, 12-10
 - restrictions, *System Management*, 12-40
 - Command mode, *System Management*, 12-40

PATTERN command
 IOX
 restrictions (cont'd.)
 logical assignments, *System Management*, 12-40
 PAT utility
 checksum, *Utilities*, 11-8
 Checksum switch
 See /CS switch
 command line, *Utilities*, 11-1, A-24
 /CS switch, *Utilities*, 11-2, 11-8
 file
 correction, *Utilities*, 11-4
 input, *Utilities*, 11-4
 messages, *Utilities*, 11-8
 error, *Utilities*, 11-9
 informational, *Utilities*, 11-9
 Task Builder, *Utilities*, 11-5
 validating file content, *Utilities*, 11-8
 .PAUSE directive, *Indirect*, 2-84
 /PAUSE qualifier
 STOP/PROCESSOR command, *System Management*, 3-33
 Pbn parameter
 device-specific (disk driver), *I/O Drivers*, 4-9
 PC
 See Program counter
 PC11 paper tape reader/punch
 SYSGEN question, *System Generation*, 3-54
 /PCB, *Crash Dump Analyzer*, 2-4, 2-6
 PCB
 See also Partition Control Block
 composite arrangement, *Writing I/O Driver*, 2-12
 PCBDF\$, *Crash Dump Analyzer*, C-57
 PCL11
 See also LRDRV
 hardware, *I/O Drivers*, 11-1
 receiver driver, *I/O Drivers*, 11-2
 transmitter driver, *I/O Drivers*, 11-1
 PCL11 receiver/transmitter
 SYSGEN question, *System Generation*, 3-65
 P command, *Debugging*, 2-9, 3-3, 3-4; *XDT*, 1-9, 2-14
 ODT, *Program Development*, 5-7
 PC-relative location, *Debugging*, 2-5, 4-5
 PC-relative offset, *Debugging*, 2-9, 7-2; *XDT*, 2-14
 PDR, *Task Builder*, 2-16; *Writing I/O Driver*, 1-2
 /PD switch
 RMSCNV utility, *RMS-11 Utilities*, 4-12
 RMSIFL utility, *RMS-11 Utilities*, 3-6 to 3-7, 3-11
 Percent sign (%)
 See also Wildcard character
 defines register symbols, *MACRO-11*, 2-8, 2-9
 special character in *MACRO-11*, *MACRO-11*, 2-1
 Percent sign operator (%)
 See Operator
 Performance
 stall I/O (disk driver), *I/O Drivers*, 4-12
 Period (.)
 component of a term, *MACRO-11*, 2-13
 current location counter symbol,
 MACRO-11, 2-7, 2-11, 2-13
 assign new value to, *MACRO-11*, 2-11
 makes expression relocatable, *MACRO-11*, 2-15
 reserved for DIGITAL system symbols,
 MACRO-11, 2-1, 2-5
 signified decimal number in RSX command string, *MACRO-11*, 7-5
 special character in *MACRO-11*, *MACRO-11*, 2-2
 Peripheral configuration
 choosing at system generation, *Writing I/O Driver*, 5-10
 Peripheral device
 See Device
 Peripheral Interchange Program
 See PIP utility
 Peripheral support routine
 K-series, *I/O Drivers*, 13-1
 Permanent symbol table, *MACRO-11*, C-1
 P error
 .ERROR, *MACRO-11*, 6-16
 inconsistent program section attribute,
 MACRO-11, 2-12
 multiple definition of local symbol,
 MACRO-11, 2-10
 when defining local symbols, *MACRO-11*, 5-14
 PFCS\$ directive, *Executive*, 5-157
 PFT
 using, *Utilities*, C-7
 PFT Command Line Format
 See CFT
 Physical/logical association, *I/O Drivers*, 1-2

- Physical address, *Task Builder*, 2-12
- Physical device
 - assigning LUN, *Task Builder*, 12-8
- Physical device name, *Crash Dump Analyzer*, 3-14
- Physical I/O, *I/O Drivers*, 1-2
- Physical memory switch
 - See /DUMP
- PIC, *MACRO-11*, G-1
- p lefn parameter
 - DISWP: subroutine (LADRV), *I/O Drivers*, 12-12
- PIP/ENTER command (RMSBCK), *RMS-11 Utilities*, 6-3
- PIP utility, *RMS-11 Utilities*, 5-2; *MCR*, 2-2; *Program Development*, 1-9; *Introduction*, 5-1
 - account file
 - copying, *System Management*, 2-3
 - extending, *System Management*, 2-3
 - asterisk (*), *Program Development*, 3-9
 - changing access rights with, *MCR*, 2-4
 - cleaning up a directory, *Program Development*, 3-9
 - command functions, *Utilities*, 12-35
 - concatenating, *Utilities*, 12-39
 - copying Files-11 file, *Utilities*, 12-35
 - file control, *Utilities*, 12-39
 - command line, *Utilities*, 12-1, A-24
 - ampersand (&), *Utilities*, 12-39
 - switch placement, *Utilities*, 12-5
 - copy command
 - subswitches, *Utilities*, 12-37
 - creating a concatenated object module, *Program Development*, 4-4
 - deleting directory, *MCR*, 2-2
 - deleting files, *MCR*, 2-2
 - examining listing at terminal, *Program Development*, 3-6, 4-6, 7-4
 - file
 - control, *Utilities*, 12-3
 - deleting, *Utilities*, 12-11
 - listing, *Utilities*, 12-18
 - merging, *Utilities*, 12-36
 - protecting, *Utilities*, 12-22
 - purging, *Utilities*, 12-24
 - renaming, *Utilities*, 12-25
 - spooling, *Utilities*, 12-30
 - file specification, *Utilities*, 12-2
 - default, *Utilities*, 12-2 to 12-3
 - wildcard character, *Utilities*, 12-7
- PIP utility (cont'd.)
 - merge
 - subswitches, *Utilities*, 12-37
 - messages
 - error, *Utilities*, 12-40
 - error code, *Utilities*, 12-49
 - format, *Utilities*, 12-40
 - printing listing, *Program Development*, 3-8
 - spooling listing, *Program Development*, 3-8
 - subswitches
 - copy command, *Utilities*, 12-37
 - description, *Utilities*, 12-19
 - file control, *Utilities*, 12-39
 - merge, *Utilities*, 12-37
 - placement in command line, *Utilities*, 12-5
 - switches
 - /AP, *Utilities*, 12-8
 - /BS, *Utilities*, 12-9
 - /CD, *Utilities*, 12-10
 - /DD, *Utilities*, 12-10
 - /DE, *Utilities*, 12-11
 - /DF, *Utilities*, 12-12
 - /EN, *Utilities*, 12-13
 - /EOF, *Utilities*, 12-14
 - /EX, *Utilities*, 12-15
 - /FI, *Utilities*, 12-16
 - /FR, *Utilities*, 12-17
 - /ID, *Utilities*, 12-17
 - /LI, *Program Development*, 3-9; *Utilities*, 12-18
 - /ME, *Program Development*, 4-4; *Utilities*, 12-21, 12-36
 - /NM, *Utilities*, 12-21
 - /PR, *Utilities*, 12-22
 - /PU, *Program Development*, 3-9; *Utilities*, 12-24
 - /RE, *Utilities*, 12-25
 - /RM, *Utilities*, 12-27
 - /RW, *Utilities*, 12-28
 - /SB, *Utilities*, 12-29
 - /SP, *Program Development*, 3-8; *Utilities*, 12-30
 - /SR, *Utilities*, 12-31
 - /SS, *Utilities*, 12-29
 - /TD, *Utilities*, 12-32
 - /TR, *Utilities*, 12-32
 - /UF, *Utilities*, 12-33
 - /UN, *Utilities*, 12-34
 - /UP, *Utilities*, 12-34

- PIP utility (cont'd.)
 - /TR switch
 - overriding default extension block count, *System Management*, 1-8
 - UFD creation, *Utilities*, 12-33
 - wildcard character, *Utilities*, 12-7
- p IS.PND status return
 - tape driver, *I/O Drivers*, 6-10
- /PI switch, *Task Builder*, 10-34
- \$PKAVL, *Crash Dump Analyzer*, 3-36
- p K-series supported hardware, *I/O Drivers*, 13-1
- %PKT\$IDENT
 - CFL packet information function, *Error Logging*, 5-22
- %PKT\$MODULE
 - CFL packet information function, *Error Logging*, 5-22
- PKTDF\$, *Crash Dump Analyzer*, C-62
- Placement
 - RMSBCK utility, *RMS-11 Utilities*, 6-1
 - RMSDEF utility, *RMS-11 Utilities*, A-14
 - RMSRST utility, *RMS-11 Utilities*, 7-1
- Placement control, *RMS-11 User's Guide*, 1-17, 1-19
 - calculating starting LBN, *RMS-11 User's Guide*, 6-14
 - cylinder, *RMS-11 User's Guide*, 6-13 to 6-14
 - indexed files, *RMS-11 User's Guide*, 6-13
 - sector, *RMS-11 User's Guide*, 6-14
 - track, *RMS-11 User's Guide*, 6-13 to 6-14
- Placement control F11ACP, *I/O Operations*, H-11
- Platter, *RMS-11 Intro*, 2-1
- /PLCTL keyword
 - SET command, MCR, 3-178; *System Management*, 8-10
 - SET command (VMR), *System Management*, 5-61
- Plus sign (+)
 - default switch value in RSX command string, *MACRO-11*, 7-5
 - special character in *MACRO-11*, *MACRO-11*, 2-2
- Plus sign operator (+)
 - See also Operator
 - addition, *MACRO-11*, 2-4
 - unary plus, *MACRO-11*, 2-4
- PMD
 - See also Postmortem Dump
 - specifying, *Task Builder*, 11-50
- PMD file type, *Program Development*, 5-10
- /PMD keyword
 - ABORT command, MCR, 3-3
 - INS command (VMR), *System Management*, 5-23
 - INSTALL command, MCR, 3-97
 - RUN command, MCR, 3-144
- PMD task, *Program Development*, 1-8
 - enabling with TKB, *Program Development*, 5-9
- /PM switch, *Task Builder*, 10-35
- TKB, *Program Development*, 5-9
- PMT
 - See also Pool Monitor Task
 - abortable tasks, *System Management*, 8-7
 - listing at console, *System Management*, 8-6
 - aborting, *System Management*, 8-13
 - aborting tasks running from console, *System Management*, 8-12
 - activation, *System Management*, 8-2
 - checkpointing stopped tasks, *System Management*, 8-12
 - conditions affecting response, *System Management*, 8-3
 - controlling actions, *System Management*, 8-12
 - controlling pool use, *System Management*, 8-12
 - extreme fragmentation, *System Management*, 8-6
 - example, *System Management*, 8-8
 - functions, *System Management*, 8-2
 - high pool state, *System Management*, 8-6
 - installation, *System Management*, 8-2
 - low pool state, *System Management*, 8-5
 - messages
 - extreme pool fragmentation, *System Management*, 8-6, 8-8
 - low pool state, *System Management*, 8-5
 - preventing, *System Management*, 8-12
 - operating cycle, *System Management*, 8-3, 8-11
 - dependencies, *System Management*, 8-11
 - lengthening, *System Management*, 8-12
 - pool monitoring support and, *System Management*, 8-2
 - removing from system, *System Management*, 8-11

PMT (cont'd.)

- task-build options, *System Management*, 8-11
- tasks eligible to abort, *System Management*, 8-7
- timing, *System Management*, 8-11

PMTBLD.CMD file

- modifying, *System Management*, 8-11

PNC argument

- for .ENABL/.DSABL, *MACRO-11*, 5-15

Pn parameter

- IO.RLB function, *I/O Drivers*, 1-30
- IO.RVB function, *I/O Drivers*, 1-32
- IO.WLB function, *I/O Drivers*, 1-32
- IO.WVB function, *I/O Drivers*, 1-34

POINTER

- CFL named variable, *Error Logging*, 5-9

Pointer

- mapping
 - allocating, *System Management*, 1-9
 - default number for file window, *System Management*, 1-9

POINTER data type

- CFL, *Error Logging*, 5-7

POINTER statement

- CFL, *Error Logging*, 5-37

.POINT routine

- file byte position, *I/O Operations*, 2-10
- positioning file to byte, *I/O Operations*, 4-21

/POOL, *Crash Dump Analyzer*, 2-4, 2-7

Pool, *System Management*, 8-1

- bit map, *Crash Dump Analyzer*, 3-12
- buffer
 - private (TTDRV), *I/O Drivers*, 2-80
- buffer descriptor block, *RMS-11 Macro*, 2-8
- change in condition of
 - definition of temporary, *System Management*, 8-4
- condition
 - description, *System Management*, 8-3
 - largest fragment and, *System Management*, 8-4
 - largest fragment too small, *System Management*, 8-4
- declaring space, *RMS-11 Macro*, 2-4
- definition, *System Generation*, 1-11; *System Management*, 8-1
- depleting
 - explanation, *System Management*, 8-1
- depletion
 - avoiding, *System Management*, 8-1

Pool

depletion (cont'd.)

- detecting signs, *System Management*, 8-1
- detecting pool events, *System Management*, 8-2
- determining overall state, *System Management*, 8-3
- displaying, DCL, 8-14 to 8-17
- dump, *Crash Dump Analyzer*, 3-36
- Executive code for monitoring, *System Management*, 8-2
- extreme fragmentation of, *System Management*, 8-6
 - PMT messages, *System Management*, 8-6
- fragmentation
 - responding to, *System Management*, 8-2
- fragment size
 - increasing, *System Management*, 8-12
 - setting, *System Management*, 8-10
- free, *Crash Dump Analyzer*, 3-12
- free-space list, *RMS-11 Macro*, 2-21
- high limit, *System Management*, 8-3
- high pool event, *System Management*, 8-6
- I/O buffer, *RMS-11 Macro*, 2-6
- index descriptor block, *RMS-11 Macro*, 2-5
- installing headers in, MCR, 3-100; *System Management*, 5-26
- internal FAB, *RMS-11 Macro*, 2-5
- internal RAB, *RMS-11 Macro*, 2-5
- key buffer, *RMS-11 Macro*, 2-6
- largest fragment, *Crash Dump Analyzer*, 3-12
- limit
 - displaying, MCR, 3-179
- low limit, *System Management*, 8-3
- low pool event, *System Management*, 8-5
- major events, *System Management*, 8-4
- monitoring, *System Management*, 8-1
- number of unallocated fragments, *Crash Dump Analyzer*, 3-12
- primary
 - definition, *System Management*, 1-2
 - installing tasks, MCR, 3-24
- requirements, *System Management*, 8-1
- secondary
 - See also Secondary pool
 - definition, *System Management*, 1-2
 - displaying, MCR, 3-183; *System Management*, 8-14

Pool

- secondary (cont'd.)
 - increasing availability, *System Management*, 8-17
 - installing tasks, MCR, 3-24, 3-98
 - percent in use, MCR, 3-183; *System Management*, 8-14
 - saving, MCR, 3-147; *System Management*, 8-18
- secondary pool dump, *Crash Dump Analyzer*, 3-36
- setting limit, MCR, 3-178
- size, *Crash Dump Analyzer*, 3-12
 - displaying, MCR, 3-179, 3-180
 - setting, MCR, 3-179
- smallest possible block, *Crash Dump Analyzer*, 3-12
- space
 - allocating, MCR, 3-157
- total free bytes, *Crash Dump Analyzer*, 3-12
- use
 - DECnet package
 - pregenerated kit, *System Generation*, 5-49
- /POOL/LIMITS qualifier
 - SET SYSTEM command, *System Management*, 8-10
- POOL\$B macro, *RMS-11 Macro*, 2-4, C-2
- POOL\$E macro, *RMS-11 Macro*, 2-4
 - declaring, *RMS-11 Macro*, C-2
- POOL_RESERVE parameter
 - Resource Accounting, *System Management*, 8-18
 - START/ACCOUNTING command, *System Management*, 10-5
- Pool-declaration macro
 - declaring, *RMS-11 Macro*, C-2
- Pool event, *System Management*, 8-4
 - detecting, *System Management*, 8-2
 - high pool, *System Management*, 8-6
 - low pool, *System Management*, 8-5
- /POOL keyword
 - SET command, MCR, 3-179
 - SET command (VMR), *System Management*, 5-62
- Pool limits, *System Management*, 8-10
 - setting high limit, *System Management*, 8-10
 - setting low limit, *System Management*, 8-10
- Pool monitor code
 - Executive
 - function, *System Management*, 8-2
- Pool monitoring support
 - description, *System Management*, 8-2
 - establishing, *System Management*, 8-2
 - overview, *System Management*, 1-13
- Pool monitor interface
 - functions, *System Management*, 8-2
- Pool Monitor Task, MCR, 3-178
 - See also PMT
- Pool-resident, *Writing I/O Driver*, 6-7
 - header, *Writing I/O Driver*, 6-9
- /POOLSIZE keyword
 - SET command (VMR), *System Management*, 5-62
- Pool statistics dump, *Crash Dump Analyzer*, 3-1, 3-12
- Populating indexed files, *RMS-11 User's Guide*, 6-26
 - primary key order, *RMS-11 User's Guide*, 6-27
 - random insertions, *RMS-11 User's Guide*, 6-28
 - bucket fill size, *RMS-11 User's Guide*, 6-29
 - mass insertion, *RMS-11 User's Guide*, 6-29
- Port
 - See Communications port
- Port parameter
 - UNIBUS switch driver
 - device-specific, *I/O Drivers*, 14-4
 - IO.DPT function, *I/O Drivers*, 14-6
- Ports, *Writing I/O Driver*, 1-12
 - switching between, *Writing I/O Driver*, 1-12
- POSITION
 - RMSDES utility, *RMS-11 Utilities*, 2-46
- Position-independent code
 - See PIC
- /POSITION qualifier
 - BRU utility, *Utilities*, 3-22
- Position tape
 - DDDRV, *I/O Drivers*, 5-4
- .POSIT routine
 - returning record position, *I/O Operations*, 4-23
- /POS keyword
 - INITVOLUME command, MCR, 3-90
- .POSRC routine
 - positioning file to record, *I/O Operations*, 4-22
- Postmortem Dump, *Task Builder*, D-1 to D-6
 - See also PMD

Postmortem Dump (cont'd.)

- See also PMD task
- definition of, *MCR*, 3-2
- example, *Task Builder*, D-3 to D-6
- generating, *MCR*, 3-97
- requesting, *MCR*, 3-144
- specifying, *Task Builder*, 10-35
- task, *MCR*, 3-144
- /POSTMORTEM qualifier, *Task Builder*, 11-50
- LINK command, *Program Development*, 5-9
- Power failure
 - affecting disks, *I/O Drivers*, 1-42
 - affecting tape, *I/O Drivers*, 1-42
 - affecting the system, *I/O Drivers*, 14-7
 - entry point, *Writing I/O Driver*, 4-61
 - overview, *Writing I/O Driver*, 2-6
- QIO\$
 - valid (TM11), *I/O Drivers*, 6-14
- recovery from
 - tape driver, *I/O Drivers*, 6-14
 - UNIBUS switch driver, *I/O Drivers*, 14-7
- Power recovery event
 - DSP6P1 dispatcher module, *Error Logging*, 4-67
- Power switch
 - CRDRV, *I/O Drivers*, 9-4
- .PPASC routine
 - converting UIC to ASCII, *I/O Operations*, 4-8
- PR11 reader
 - SYSGEN question, *System Generation*, 3-55
- Pradd parameter
 - device-specific
 - VTDRV, *I/O Drivers*, 3-4
 - TTDRV, *I/O Drivers*, 2-12
 - IO.RPR function, *I/O Drivers*, 2-43
- Predefined syntax elements, *System Management*, 18-50
 - basic data types, *System Management*, 18-50 to 18-51
 - common command elements, *System Management*, 18-51 to 18-54
 - program control elements, *System Management*, 18-57 to 18-58
 - special parser elements, *System Management*, 18-54 to 18-56
 - special translator elements, *System Management*, 18-56

Predriver initiation

- processing during, *Writing I/O Driver*, 3-1, 3-2, 3-3, 3-4
- Pregenerated kit
 - account file, *System Generation*, 5-36
 - BLDLAINIT.CMD file, *System Generation*, 5-49
 - changing crash device, *System Generation*, 5-49
 - configuration file statement, *System Generation*, 5-21 to 5-33
 - contents, *System Generation*, 5-1
 - copying, *System Generation*, 5-2
 - example, *System Generation*, 5-15 to 5-20
 - RL02 kit to DU-type disk, *System Generation*, 5-9 to 5-15
 - RL02 kit to RL02 disk, *System Generation*, 5-3 to 5-8
 - creating system management files, *System Generation*, 5-39
 - DECnet package, *System Generation*, 5-49
 - definition, *System Generation*, 1-2
 - DELETESYS.CMD file, *System Generation*, 5-8, 5-14
 - deleting unused system, *System Generation*, 5-5
 - detailed description, *System Generation*, 5-45
 - device configuration, *System Generation*, 5-47
 - Executive features, *System Generation*, 5-45
 - hardware support, *System Generation*, 5-46
 - installation, *System Generation*, 5-2
 - K-series devices, *System Generation*, 5-49
 - LOGIN.CMD file, *System Generation*, 5-38
 - LOGOUT.CMD file, *System Generation*, 5-39
 - LPA11-K laboratory subsystems, *System Generation*, 5-49
 - overview, *System Generation*, 5-1
 - recovering disk space, *System Generation*, 5-48
 - restrictions, *System Generation*, 5-47
 - RMS-11, *System Generation*, 5-43
 - setting crash device, *System Generation*, 5-49
 - setup information, *System Generation*, 5-20
 - startup procedure, *System Generation*, 5-20
 - error message, *System Generation*, 5-33
 - troubleshooting, *System Generation*, 5-33

- Pregenerated kit (cont'd.)
 - SYSLOGIN.CMD file, *System Generation*, 5-37
 - functions, *System Generation*, 5-37
 - SYSLOGOUT.CMD file, *System Generation*, 5-39
 - system images
 - description, *System Generation*, 5-5
 - system management help files, *System Generation*, 5-40 to 5-43
 - tasks supplied, *System Generation*, 5-43
- PREPGEN
 - definition, *System Generation*, 1-12
 - description, *System Generation*, 3-6
 - SYSGEN question, *System Generation*, 3-6, 3-18
- Preset parameter
 - IO.CLK function (LADRV), *I/O Drivers*, 12-26
- /PREVIOUS_DAYS qualifier
 - ANALYZE/ERROR_LOG command, *Error Logging*, 3-9
 - See also /DATE switch
- PRI command
 - file switches, *Batch and Queue*, 2-3
 - format, *Batch and Queue*, 2-3
 - job switches, *Batch and Queue*, 2-3
- /PRI keyword
 - ALT command (VMR), *System Management*, 5-8
 - ALTER command, *MCR*, 3-12
 - INS command (VMR), *System Management*, 5-23
 - INSTALL command, *MCR*, 3-97
 - RUN command, *MCR*, 3-144
- Primary disk
 - shadowing, *System Management*, 1-15
- Primary index
 - See Index
 - RMSCNV utility, *RMS-11 Utilities*, 4-1
 - RMSIFL utility, *RMS-11 Utilities*, 3-10 to 3-11
- Primary key, *RMS-11 User's Guide*, 1-7, 1-11; *RMS-11 Intro*, 3-7
 - RMSCNV utility, *RMS-11 Utilities*, 4-1, 4-16
 - RMSDEF utility
 - definition, *RMS-11 Utilities*, A-10
 - RMSIFL utility, *RMS-11 Utilities*, 3-5 to 3-6
 - sorting, *RMS-11 Utilities*, 3-9
- Primary RBN, *System Management*, 13-6
- Primary UNIBUS run, *Writing I/O Driver*, 1-18
- PRINT\$ macro, *I/O Operations*, 8-1
 - error handling, *I/O Operations*, 8-2
- \$PRINT card
 - command qualifiers, *Batch and Queue*, 3-25
 - format, *Batch and Queue*, 3-25
- PRINT command, *Batch and Queue*, 2-2; *I/O Operations*, 8-2; *Program Development*, 1-13, 3-8; *DCL*, 4-73 to 4-82, 9-28
 - command qualifiers, *Batch and Queue*, 2-3
 - examples, *Batch and Queue*, 2-7
 - file qualifiers, *Batch and Queue*, 2-3
 - format, *Batch and Queue*, 2-3
- Print command
 - EDI editor, *Utilities*, 7-34
- Print Despooler Transaction Block, *System Management*, 10-46
- .PRINT directive, *MACRO-11*, 6-16
 - summary, *MACRO-11*, 6-2
- Printer, *RMS-11 Macro*, 3-1, 5-20, 5-37, 5-77, 5-88, 5-103 to 5-104, 5-111, 5-117; *Program Development*, 1-13
 - form types
 - LA100, *System Management*, 3-22
 - LA50, *System Management*, 3-22
 - LA75, *System Management*, 3-22
 - LN01, *System Management*, 3-22
 - LN03, *System Management*, 3-22
 - spooling to, *System Management*, 3-1
 - stopping, *DCL*, 4-92
- /PRINTER_PORT keyword
 - SET command, *MCR*, 3-178
 - SET command (VMR), *System Management*, 5-63
- /PRINTER_QUEUE qualifier
 - INITIALIZE/PROCESSOR command, *System Management*, 3-20
- Printer mode, *System Management*, 3-23
- /PRINTER processor type, *System Management*, 3-19
- /PRINTER qualifier, *Task Builder*, 11-51
- Print formatting
 - CFL, *Error Logging*, 5-40 to 5-42
- Print function
 - opening file on LP, *I/O Operations*, 8-2
- Print job
 - queued by system tasks, *Batch and Queue*, 2-12
 - DCL COPY command, *Batch and Queue*, 2-12

- Print job
 - queued by system tasks (cont'd.)
 - PIP, *Batch and Queue*, 2-12
 - PIP line printer, *Batch and Queue*, 2-12
 - queued by user tasks
 - opening file on LPn:, *Batch and Queue*, 2-14
 - .PRINT, *Batch and Queue*, 2-13
 - PRINT command, *Batch and Queue*, 2-13
 - stopping, *DCL*, 4-92
 - submission notification, *Batch and Queue*, 2-2
- /PRINT log file qualifier
 - SUBMIT command, *Batch and Queue*, 3-15
- Print processor, *Batch and Queue*, 1-3
 - See also LPP
 - description, *System Management*, 3-2
 - initializing, *System Management*, 3-7
 - installing, *System Management*, 3-6
- /PRINT qualifier
 - SHOW QUEUE command, *Batch and Queue*, 2-14
- Print queue, *System Management*, 3-17
 - assigning, *System Management*, 3-9
 - initializing
 - DCL command, *System Management*, 3-5
 - MCR command, *System Management*, 3-5
- .PRINT routine
 - error handling, *I/O Operations*, 8-2
- .PRINT subroutine, *I/O Operations*, 8-2
- PRINTSUMMARY command
 - IOX, *System Management*, 12-42
- /PRIO job switch
 - QUE /MOD command, *Batch and Queue*, 2-19
 - SUB command, *Batch and Queue*, 3-15
- PRI option, *Task Builder*, 12-27
- Priority, *MCR*, 2-19; *Introduction*, 6-4
 - of binary operators, *MACRO-11*, 2-4
 - setting base for nonprivileged tasks, *System Management*, 8-10
 - task, *DCL*, 7-70 to 7-71
- /PRIORITY qualifier
 - PRINT command, *Batch and Queue*, 2-3
 - SET QUEUE command, *Batch and Queue*, 2-19
 - SUBMIT command, *Batch and Queue*, 3-15
- PRIORITY setup command, *System Management*, 7-11
- /PRIO switch
 - PRI command, *Batch and Queue*, 2-3
- Pri parameter
 - IO.ATT function, *I/O Drivers*, 1-27
 - IO.DET function, *I/O Drivers*, 1-28
 - IO.KIL function, *I/O Drivers*, 1-29
 - IO.RLB function, *I/O Drivers*, 1-30
 - IO.RVB function, *I/O Drivers*, 1-31
 - IO.WLB function, *I/O Drivers*, 1-32
 - IO.WVB function, *I/O Drivers*, 1-33
 - QIO\$ basic syntax, *I/O Drivers*, 1-8
 - TTDRV, *I/O Drivers*, 2-13
 - IO.ATA function, *I/O Drivers*, 2-23
 - IO.CCO function, *I/O Drivers*, 2-26
 - IO.EIO function, *I/O Drivers*, 2-28
 - IO.GTS function, *I/O Drivers*, 2-35
 - IO.HNG function, *I/O Drivers*, 2-37
 - IO.RAL function, *I/O Drivers*, 2-38
 - IO.RNE function, *I/O Drivers*, 2-40
 - IO.RPR function, *I/O Drivers*, 2-42
 - IO.RST function, *I/O Drivers*, 2-45
 - IO.RTT function, *I/O Drivers*, 2-47
 - IO.SMC function, *I/O Drivers*, 2-62
 - IO.WAL function, *I/O Drivers*, 2-49
 - IO.WBT function, *I/O Drivers*, 2-51
 - SF.GMC function, *I/O Drivers*, 2-53
- <PRIVIL> symbol, *Indirect*, 2-11
- Privilege
 - privileged task, *Introduction*, 6-4
 - privileged user, *Introduction*, 6-4
- /PRIVILEGED qualifier, *Task Builder*, 11-52
- Privileged user input
 - rejection, *System Management*, 5-46
- Privilege status, *MCR*, 2-3
- /PRIV keyword
 - SET command, *MCR*, 3-180
 - SET command (VMR), *System Management*, 5-63
- /PRIV subkeyword
 - COMMAND LINE INTERPRETER command, *MCR*, 3-44
- PRMS\$ directive, *Executive*, 5-163
- PRO/RMS-11
 - contrasted with RSTS/E RMS-11, *RMS-11 Macro*, D-1
 - contrasted with RSX-11 RMS-11, *RMS-11 Macro*, D-3
- PRO attribute, *System Management*, 18-46
- PRO block, *RMS-11 Intro*, 4-8
 - chaining to FAB, *RMS-11 Macro*, 2-13 to 2-14
 - declaring, *RMS-11 Macro*, 2-9

- PRO block (cont'd.)
 - initializing, *RMS-11 Macro*, 2-10
 - summary, *RMS-11 Macro*, 6-108
- PROCEDURE statement
 - CFL, *Error Logging*, 5-33
 - NOTES module, *Error Logging*, 4-34
 - user-written module, *Error Logging*, 4-29
- PROCEED command
 - IOX, *System Management*, 12-43
 - effect on LOGFILE, *System Management*, 12-43
 - uses, *System Management*, 12-43
- Proceed command
 - See P command
- Proceed count, *Debugging*, 3-4
 - register, *Debugging*, 5-4
- Processing
 - RMSBCK utility
 - data integrity checking, *RMS-11 Utilities*, 6-9
 - explicit/implicit file specification, *RMS-11 Utilities*, 6-9
 - extended diagnostic messages, *RMS-11 Utilities*, 6-10
 - summary listing, *RMS-11 Utilities*, 6-10
 - RMSCNV utility, *RMS-11 Utilities*, 4-14
 - input file organization, *RMS-11 Utilities*, 4-16
 - output file organization, *RMS-11 Utilities*, 4-15
 - RMSDEF utility, *RMS-11 Utilities*, A-1
 - RMSIFL utility, *RMS-11 Utilities*, 3-9
 - command string checking, *RMS-11 Utilities*, 3-9
 - loading output file, *RMS-11 Utilities*, 3-10
 - reading and sorting input, *RMS-11 Utilities*, 3-9
 - sorting alternate key files, *RMS-11 Utilities*, 3-11
 - summary, *RMS-11 Utilities*, 3-1
 - RMSRST utility, *RMS-11 Utilities*, 7-9
 - data integrity checking, *RMS-11 Utilities*, 7-11
 - explicit/implicit file specification, *RMS-11 Utilities*, 7-10
 - extended diagnostic messages, *RMS-11 Utilities*, 7-11
 - restoration account, *RMS-11 Utilities*, 7-10
 - summary listing, *RMS-11 Utilities*, 7-12
- Processing blocks, *RMS-11 User's Guide*, 1-20; *RMS-11 Intro*, 4-1, 4-7
- Processing files, *RMS-11 User's Guide*, 1-16; *RMS-11 Intro*, 4-1
 - indexed files, *RMS-11 User's Guide*, 7-10
 - relative files, *RMS-11 User's Guide*, 4-15
 - sequential files, *RMS-11 User's Guide*, 3-15
- Processing records, *RMS-11 User's Guide*, 1-10, 1-15 ; *RMS-11 Intro*, 4-1
 - indexed files, *RMS-11 User's Guide*, 7-2
 - relative files, *RMS-11 User's Guide*, 4-7
 - sequential files, *RMS-11 User's Guide*, 3-7
- Processor
 - activating with ONLINE command, *System Management*, 4-26
 - batch
 - initializing, *System Management*, 3-11
 - installing, *System Management*, 3-10
 - failure, *System Management*, 11-5
 - recovery from, *System Management*, 11-5
 - symptoms, *System Management*, 11-5
 - file control, *System Management*, 1-7
 - floating point
 - SYSGEN question, *System Generation*, 3-33
 - halt
 - tracing fault, *Writing I/O Driver*, 6-12
 - loop
 - tracing fault, *Writing I/O Driver*, 6-12
 - memory size
 - SYSGEN question, *System Generation*, 3-33
 - print
 - See also LPP
 - description, *System Management*, 3-2
 - initializing, *System Management*, 3-7
 - restrictions, *System Management*, 3-24
 - installing, *System Management*, 3-6
- Processor clock, XDT, 1-11
 - turning off, XDT, 2-4
- Processor differences
 - table of, *MACRO-11*, 4-2
- /PROCESSOR processor type, *System Management*, 3-19
- Processor-specific functions, *Writing I/O Driver*, 1-19
- Processor states, XDT, 1-3
 - priority, XDT, 1-4

- Processor Status Word, *Crash Dump Analyzer*, 3-2; *MCR*, 3-24, 3-49; *Writing I/O Driver*, 1-1
 - See also PSW
- Processor support, *System Generation*, 3-23
- Processor traps, *XDT*, 1-8
- Professional 300 Series computer
 - using with MFT, *Utilities*, C-7
- Professional Forms Interface
 - See PFT
- Professional personal computer
 - file transfer using MFT, *Utilities*, C-1
- Program, *Introduction*, 5-2
 - compiling, *DCL*, 6-1
 - developing, *Task Builder*, 1-1; *DCL*, 6-1 to 6-31
 - development
 - advanced, *Program Development*, 1-6
 - high-level language
 - overlaying, *Task Builder*, 3-44
 - sectioning, *Program Development*, 1-5, 1-6, 2-5, 2-8
 - user
 - breakpoints
 - setting, *Program Development*, 5-6
 - FORTTRAN IV, *Program Development*, 7-3
 - library, *Program Development*, 6-1
 - macro symbol, *Program Development*, 6-4
 - definition placement, *Program Development*, 1-5
 - module
 - name, *Program Development*, 2-5
 - version, *Program Development*, 2-5
 - object library routines, *Program Development*, 6-6
 - overview of development, *Program Development*, 1-13
 - section definiton, *Program Development*, 2-8
- Program counter, *Crash Dump Analyzer*, 3-2; *MCR*, 3-24
 - operation, *MACRO-11*, 4-1
 - value, *Program Development*, 4-8
- Program development
 - optimizing, *RMS-11 User's Guide*, 8-9
- Program example I/O, *I/O Operations*, J-1
- Program interface subroutine
 - LADRV, *I/O Drivers*, 12-2
- Programming hint
 - CRDRV, *I/O Drivers*, 9-8
 - disk driver, *I/O Drivers*, 4-11
 - LPDRV, *I/O Drivers*, 7-6
 - tape driver, *I/O Drivers*, 6-14
 - TTDRV, *I/O Drivers*, 2-83
 - XEDRV, *I/O Drivers*, 10-23
- Programming sequence
 - XEDRV, *I/O Drivers*, 10-4
- Program section, *Task Builder*, 2-4
 - allocating, *Task Builder*, 3-20
 - for multiuser task, *Task Builder*, 9-1
 - attribute
 - access-code, *Task Builder*, 2-5
 - allocation-code, *Task Builder*, 2-5
 - relocation-code, *Task Builder*, 2-5
 - save, *Task Builder*, 2-5, 2-7
 - scope-code, *Task Builder*, 2-5, 2-7
 - type-code, *Task Builder*, 2-5, 2-7
 - context information maintained by
 - MACRO-11, *MACRO-11*, 5-36
 - creating, *Task Builder*, 2-4; *MACRO-11*, 5-37
 - default characteristics, *MACRO-11*, 5-40
 - default name, *MACRO-11*, 5-36
 - effect of ending with odd address,
 - MACRO-11, 5-39
 - extending, *Task Builder*, 12-14
 - global, *Task Builder*, 3-20
 - local, *Task Builder*, 3-20
 - maximum number of, *MACRO-11*, 5-36
 - Memory allocation considerations,
 - MACRO-11, 5-39
 - name
 - preserving, *Task Builder*, 5-9
 - reserved, *Task Builder*, E-3 to E-6
 - resolving, *Task Builder*, 5-45
 - named, *Task Builder*, 2-4
 - ordering sequentially, *Task Builder*, 10-40, 10-50, 11-59
 - segregating, *Task Builder*, 10-40, 11-56
 - separating code and data, *MACRO-11*, 5-39
 - sharing code or data, *MACRO-11*, 5-38
 - specifying, *Task Builder*, 3-31
 - TPARS, *I/O Operations*, 7-9
 - virtual
 - FORTTRAN, *Task Builder*, 5-70
 - FORTTRAN example, *Task Builder*, 5-73 to 5-75
 - specifying, *Task Builder*, 12-44
- Program section directive, *MACRO-11*, 5-33

- /PRO keyword
 - HOME command, MCR, 3-81
 - INITVOLUME command, MCR, 3-91
 - INS command (VMR), *System Management*, 5-23
 - INSTALL command, MCR, 3-97
 - MOUNT command, MCR, 3-115, 3-122
 - USER FILE DIRECTORY command, MCR, 3-209
- Prologue, *RMS-11 User's Guide*, 1-19; *RMS-11 Intro*, 3-15
 - indexed files, *RMS-11 User's Guide*, 5-2
 - relative files, *RMS-11 User's Guide*, 4-1
- Prompt, DCL, 1-8; *Introduction*, 1-4, 1-10
 - binary (TTDRV), *I/O Drivers*, 2-43
 - checkpointing (TTDRV), *I/O Drivers*, 2-16, 2-42
 - CLI string, MCR, 3-42
 - CTRL/O (TTDRV), *I/O Drivers*, 2-16
 - default, MCR, 2-13
 - explicit, *Introduction*, 1-5
 - explicit MCR, MCR, 2-13
 - ignoring (TTDRV), *I/O Drivers*, 2-16, 2-42
 - MCR, MCR, 2-16
 - invoking, MCR, 2-14
 - ODT, *Debugging*, 1-5
 - pass all (TTDRV), *I/O Drivers*, 2-29
 - read with (TTDRV), *I/O Drivers*, 2-20
 - redisplay (TTDRV), *I/O Drivers*, 2-30
 - RMSBCK utility, *RMS-11 Utilities*, 6-2
 - RMSDES utility, *RMS-11 Utilities*, 2-2
 - RMSDNV utility, *RMS-11 Utilities*, 4-3
 - RMSDSP utility, *RMS-11 Utilities*, 5-2
 - RMSIFL utility, *RMS-11 Utilities*, 3-2
 - RMSRST utility, *RMS-11 Utilities*, 7-2
 - send and read (TTDRV), *I/O Drivers*, 2-42
 - send pass all (TTDRV), *I/O Drivers*, 2-14
 - SHUTUP program, *System Management*, 6-2
 - example of input, *System Management*, 6-2
 - task, MCR, 2-14
- Prompting
 - CLI, *System Management*, 17-3
 - RMSDES utility
 - conditional, *RMS-11 Utilities*, 2-1, 2-13, 2-15, 2-17, 2-29
- Prompting output
 - VFC (LPDRV), *I/O Drivers*, 7-6
- /PROMPT qualifier
 - initializing CLI with, *System Management*, 17-4

- /PROMPT subkeyword
 - COMMAND LINE INTERPRETER
 - command, MCR, 3-44
- PROTECTION
 - RMSDES utility, *RMS-11 Utilities*, 2-33
- Protection, *RMS-11 User's Guide*, 1-18; DCL, 4-9 to 4-13, 4-107 to 4-113, 9-35
 - account, MCR, 2-22, 3-177
 - common region, MCR, 3-97
 - default UIC for task, MCR, 3-145
 - directory, DCL, 4-12 to 4-13, 4-17
 - file, MCR, 3-113, 3-115, 3-120, 3-122; *System Management*, 2-3; DCL, 4-9 to 4-12, 5-98, 9-35
 - default, DCL, 4-113
 - setting, DCL, 4-107 to 4-109, 4-110 to 4-112
 - specifying default, MCR, 3-87
 - specifying personal default, MCR, 3-164
 - magnetic tape, MCR, 3-121
 - RMSDEF utility, *RMS-11 Utilities*, A-18
 - RMSRST utility, *RMS-11 Utilities*, 7-7
 - volume, MCR, 3-113, 3-115, 3-120, 3-122; DCL, 4-13, 5-69
- XAB
 - See PRO block
- Protection code
 - file, *Utilities*, 12-19
 - setting with UIC, MCR, 2-4
- Protection mask, *System Management*, 5-23
- /PROTECTION qualifier
 - BRU utility, *Utilities*, 3-22
- Protection UIC, *System Management*, 5-24
- Protocol
 - Ethernet
 - LF\$DEF, *I/O Drivers*, 10-3
 - LF\$EXC, *I/O Drivers*, 10-3
 - type definition (XEDRV), *I/O Drivers*, 10-27
- Prototype ODL file, *RMS-11 User's Guide*, 8-3
- Prototype task
 - fixing, *System Management*, 5-19
 - installing, *System Management*, 5-25
- PRS2AM control file module, *Error Logging*, 4-4, 4-11, A-7
- PRS2BM control file module, *Error Logging*, 4-4, 4-11, A-7
- PRSDI routine
 - filling in directory information, *I/O Operations*, 4-15

- .PRSDV routine
 - filling in device/unit information, *I/O Operations*, 4-15
- .PRSFN routine
 - filling in file name, type, version, *I/O Operations*, 4-16
- Prsize parameter
 - device-specific
 - VTDRV, *I/O Drivers*, 3-4
 - TTDRV, *I/O Drivers*, 2-13
 - IO.RPR function, *I/O Drivers*, 2-43
 - /PR switch, *Task Builder*, 10-36
 - PIP utility, *Utilities*, 12-22
- Prv_Diag status flag, *System Management*, 4-13
- PSECT
 - See Program section
- P-sect
 - See Program section
- .PSECT directive, *Program Development*, 2-8; *Task Builder*, 3-31; *MACRO-11*, 5-33
 - assigns attributes to current location
 - counter, *MACRO-11*, 2-12
 - default characteristics, *MACRO-11*, 5-40
 - list of symbolic arguments, *MACRO-11*, 5-34
 - may confuse automatic local symbol generation in macro, *MACRO-11*, 6-10
 - summary, *MACRO-11*, 5-2
 - terminates local symbol block, *MACRO-11*, 2-10
- Pseudo device, *MCR*, 2-10; *DCL*, 5-1, 5-6 to 5-8; *Introduction*, 3-11
 - See also Device
 - CL:, *DCL*, 5-6, 5-7
 - CO:, *DCL*, 5-6, 5-7
 - LB:, *DCL*, 5-6, 5-7
 - MK:, *DCL*, 5-6, 5-7
 - NL:, *DCL*, 5-7
 - RD:, *DCL*, 5-7
 - redirecting, *MCR*, 2-10
 - SP:, *DCL*, 5-7
 - SY:, *DCL*, 5-7
 - TI:, *DCL*, 3-1, 5-7, 5-8
 - VT:, *DCL*, 5-7, 5-8
 - WK:, *DCL*, 5-7, 5-8
- Pseudo device names, *MCR*, 2-10
- PSW, *Debugging*, B-1; *Executive*, 1-2; *Writing I/O Driver*, 1-1; *XDT*, A-1
 - format, *Debugging*, B-1; *XDT*, A-1
 - register, *Debugging*, 2-5, 5-3
- \$PTBYT routine, *Writing I/O Driver*, 7-28
- \$PTWRD routine, *Writing I/O Driver*, 7-28
- /PUB keyword
 - MOUNT command, *MCR*, 3-115, 3-122
 - SET command, *MCR*, 3-180
 - SET command (VMR), *System Management*, 5-63
- PURGE command, *Program Development*, 3-9; *DCL*, 4-42 to 4-44, 9-29; *Introduction*, 3-7
- /PU switch
 - PIP utility, *Program Development*, 3-9; *Utilities*, 12-24
- PUT\$ macro, *I/O Operations*, 1-9, 3-1, 3-26
 - FD.RWM parameter
 - record I/O, *I/O Operations*, 2-10
- FDB
 - file processing, *I/O Operations*, 3-25
- file processing
 - locate mode, *I/O Operations*, 3-26
 - write logical record, *I/O Operations*, 3-24
- file truncate, *I/O Operations*, 2-10
- fixed-length record, *I/O Operations*, 3-26
 - block boundary, *I/O Operations*, 3-27
 - block buffer, *I/O Operations*, 3-27
- locate mode, *I/O Operations*, 3-24, 3-27
- move mode, *I/O Operations*, 3-24, 3-26
- no truncate function, *I/O Operations*, 2-10
- sequenced record, *I/O Operations*, 3-24
- task record buffer, *I/O Operations*, 3-26
- variable-length record, *I/O Operations*, 3-26
 - block boundary, *I/O Operations*, 3-27
- PUT\$R macro, *I/O Operations*, 3-1
 - example, *I/O Operations*, 3-29
 - file processing
 - write logical record random mode, *I/O Operations*, 3-28
 - random mode
 - locate mode execution, *I/O Operations*, 3-29
- PUT\$\$ macro, *I/O Operations*, 3-1
 - file processing
 - write logical record, sequential mode, *I/O Operations*, 3-29
- PUT argument to ORG\$ macro, *RMS-11 Macro*, 2-3
- \$PUT macro
 - key access, *RMS-11 Macro*, 5-95
 - sequential access, *RMS-11 Macro*, 5-91

PUT operation, *RMS-11 Macro*, 4-8, 5-88;
RMS-11 User's Guide, 1-15; *RMS-11 Intro*, 4-4
 access modes, *RMS-11 Intro*, 4-6
 and key position, *RMS-11 User's Guide*, 6-7
 and ODL files, *RMS-11 User's Guide*, 8-5
 and shared access, *RMS-11 User's Guide*, 2-6
 and stream records, *RMS-11 User's Guide*, 2-17
 declaring with ORG\$ macro, *RMS-11 Macro*, 2-3
 deferred write, *RMS-11 User's Guide*, 7-9
 duplicate keys, *RMS-11 User's Guide*, 6-9
 indexed files, *RMS-11 User's Guide*, 7-5, 7-9
 key access, *RMS-11 User's Guide*, 5-10, 7-6
 mass insertion, *RMS-11 User's Guide*, 7-9
 initial allocation, *RMS-11 User's Guide*, 4-4
 key access, *RMS-11 User's Guide*, 1-16
 locate mode, *RMS-11 User's Guide*, 3-14
 move mode
 indexed files, *RMS-11 User's Guide*, 7-7
 relative files, *RMS-11 User's Guide*, 4-12
 sequential files, *RMS-11 User's Guide*, 3-13
 optimizing, *RMS-11 User's Guide*, 6-7
 \$PUT macro
 key access, *RMS-11 Macro*, 5-95
 relative files, *RMS-11 User's Guide*, 4-11
 key access, *RMS-11 User's Guide*, 4-11
 sequential access, *RMS-11 User's Guide*, 4-11
 sequential access, *RMS-11 Macro*, 5-91;
 RMS-11 User's Guide, 1-16, 5-17, 7-6
 sequential files, *RMS-11 User's Guide*, 3-10
 key access, *RMS-11 User's Guide*, 3-10
 sequential access, *RMS-11 User's Guide*, 3-10
 PUT statement, *Error Logging*, 4-33
 CFL, *Error Logging*, 5-38

Q

Q.xxx offsets
 in I/O packet, *Writing I/O Driver*, 4-15, 4-16
 \$QERMV Executive routine, *Error Logging*, 4-27

Q error
 .EVEN, *MACRO-11*, 5-31
 in bad expression, *MACRO-11*, 2-14
 invalid floating-point number, *MACRO-11*, 5-28
 invalid syntax, *MACRO-11*, 2-3
 .ODD, *MACRO-11*, 5-31
 .TITLE, *MACRO-11*, 5-10
 too many arguments in macro call, *MACRO-11*, 6-9
 \$QINSP routine, *Writing I/O Driver*, 7-29
 QIO\$
 ACP interface, *I/O Operations*, H-1
 parameter list (F11ACP), *I/O Operations*, H-6
 QIO\$C macro, *I/O Drivers*, 1-15
 QIO\$ directive, *Executive*, 5-168
 BYE command, *MCR*, 3-36
 SET /MAXPKT command, *MCR*, 3-172
 soliciting input, *MCR*, 2-14
 summary, *I/O Operations*, F-2
 QIO\$ function
 ACP
 closing a file, *I/O Operations*, H-3
 creating a file, *I/O Operations*, H-2
 deleting a file, *I/O Operations*, H-3
 extending a file, *I/O Operations*, H-3
 opening a file, *I/O Operations*, H-3
 using, *I/O Operations*, H-2
 device-specific
 TTDRV, *I/O Drivers*, 2-19
 UNIBUS switch driver, *I/O Drivers*, 14-4
 directive error status list, *I/O Drivers*, B-6
 directive success status list, *I/O Drivers*, B-7
 standard (UNIBUS switch driver), *I/O Drivers*, 14-2
 TTDRV, *I/O Drivers*, 2-21
 QIO\$ macro, *I/O Drivers*, 1-15
 CRDRV, *I/O Drivers*, 9-2
 DDDRV, *I/O Drivers*, 5-2
 device-specific function
 CRDRV, *I/O Drivers*, 9-3
 DDDRV, *I/O Drivers*, 5-3
 disk driver, *I/O Drivers*, 4-8
 DUDRV, *I/O Drivers*, 4-9
 LADRV, *I/O Drivers*, 12-25
 receiving (LRDRV), *I/O Drivers*, 11-8
 tape driver, *I/O Drivers*, 6-7
 transmitting (LRDRV), *I/O Drivers*, 11-3

QIO\$ macro

- device-specific function (cont'd.)
 - TTDRV, *I/O Drivers*, 2-10, 2-19
 - list, *I/O Drivers*, 2-22
 - VTDRV, *I/O Drivers*, 3-2, 3-5
 - XEDRV, *I/O Drivers*, 10-4, 10-5
- disk driver, *I/O Drivers*, 4-7
- event flag, *I/O Drivers*, 1-4
- Executive function, *I/O Drivers*, 1-4
- format
 - basic, *I/O Drivers*, 1-5, 1-6
 - general (XEDRV), *I/O Drivers*, 10-3
- introduction, *I/O Drivers*, 1-1
- IO.ATT function, *I/O Drivers*, 1-27
- IO.DET function, *I/O Drivers*, 1-28
- IO.KIL function, *I/O Drivers*, 1-29
- IO.RLB function, *I/O Drivers*, 1-30
- IO.RVB function, *I/O Drivers*, 1-31
- IO.WLB function, *I/O Drivers*, 1-32
- IO.WVB function, *I/O Drivers*, 1-33
- issuing hint (tape driver), *I/O Drivers*, 6-16
- library (XEDRV), *I/O Drivers*, 10-3
- LPDRV, *I/O Drivers*, 7-4
- null argument, *I/O Drivers*, 1-5
- omitting comma in syntax, *I/O Drivers*, 1-5
- power failure, *I/O Drivers*, 1-42
- standard function
 - CRDRV, *I/O Drivers*, 9-2
 - DDDRV, *I/O Drivers*, 5-3
 - disk driver, *I/O Drivers*, 4-7
 - LPDRV, *I/O Drivers*, 7-4
 - receiving (LRDRV), *I/O Drivers*, 11-8
 - tape driver, *I/O Drivers*, 6-6
 - transmitting (LRDRV), *I/O Drivers*, 11-3
 - TTDRV, *I/O Drivers*, 2-9, 2-10
 - VTDRV, *I/O Drivers*, 3-2, 3-4
 - XEDRV, *I/O Drivers*, 10-5
- standard I/O format (TTDRV), *I/O Drivers*, 2-10
- syntax element, *I/O Drivers*, 1-6
- tape driver, *I/O Drivers*, 6-5
- TTDRV, *I/O Drivers*, 2-9
- UNIBUS switch, *I/O Drivers*, 14-2
- valid power failure (TM11), *I/O Drivers*, 6-14
- VTDRV, *I/O Drivers*, 3-2
- XEDRV, *I/O Drivers*, 10-3, 10-5

QIO\$\$ macro, *I/O Drivers*, 1-15

QIO\$ syntax

- P1,P2,...,P6 parameter, *I/O Drivers*, 1-9

QIO count

- ELI, *Error Logging*, 2-9, 2-10
- See also /RESET switch

QIO DEUNA driver

- See XEDRV

QIO directive

- building I/O packet, *Writing I/O Driver*, 4-10
- creating DPB, *Writing I/O Driver*, 3-2
- directive dispatching, *Writing I/O Driver*, 3-2

QIO Directive Parameter Block (QIO DPB), *Writing I/O Driver*, 4-12, 4-15 to 4-16

QIO execution routine, *I/O Operations*, 4-23

QIO request, *Writing I/O Driver*, 2-12

QIOW\$ directive, *Executive*, 5-172

- summary, *I/O Operations*, F-2

QIOW\$ macro, *I/O Drivers*, 1-15, 1-16

- format, *I/O Drivers*, 1-16
- task synchronization, *I/O Drivers*, 1-5

QMG, *Program Development*, 1-13; *System Management*, 3-1; *DCL*, 1-23, 4-83 to 4-94

batch processing

- support, *System Management*, 1-11

command descriptions, *System Management*, 3-15 to 3-43

commands

- DCL format, *System Management*, 3-15
- MCR format, *System Management*, 3-15

DCL commands

- ASSIGN/QUEUE, *System Management*, 3-29

DEASSIGN/QUEUE, *System Management*, 3-30

DELETE/PROCESSOR, *System Management*, 3-27

DELETE/QUEUE, *System Management*, 3-26

INITIALIZE/PROCESSOR, *System Management*, 3-19

INITIALIZE/QUEUE, *System Management*, 3-17

START/PROCESSOR, *System Management*, 3-36

START/QUEUE, *System Management*, 3-40

START/QUEUE/MANAGER, *System Management*, 3-41

STOP/ABORT, *System Management*, 3-31

QMG

DCL commands (cont'd.)

- STOP/PROCESSOR, *System Management*, 3-32
- STOP/QUEUE, *System Management*, 3-34
- STOP/QUEUE/MANAGER, *System Management*, 3-35
- description, *System Management*, 1-11
- entry number, *DCL*, 4-83
- error messages, *System Management*, 3-43, 3-43 to 3-50
- function, *System Management*, 3-2
- installation, *System Management*, 3-2 to 3-10
 - interactive, *System Management*, 3-3
 - using *STARTUP.CMD*, *System Management*, 3-2
 - using *SYSPARAM.DAT*, *System Management*, 3-2

MCR commands

- QUE /AS:, *System Management*, 3-29
 - QUE /CR, *System Management*, 3-17
 - QUE /DEA, *System Management*, 3-30
 - QUE /DEL:Q, *System Management*, 3-26
 - QUE /KIL, *System Management*, 3-31
 - QUE /SP, *System Management*, 3-19
 - QUE /STA, *System Management*, 3-36
 - QUE /STA:QMG, *System Management*, 3-41
 - QUE /STA:QUE, *System Management*, 3-40
 - QUE /STO, *System Management*, 3-32
 - QUE /STO:QMG, *System Management*, 3-35
 - QUE /STO:QUE, *System Management*, 3-34
 - QUE /UNSP, *System Management*, 3-27
 - number of processors supported, *System Management*, 1-11
 - number of queues supported, *System Management*, 1-11
 - starting, *System Management*, 3-4
 - DCL command, *System Management*, 3-4
 - MCR command, *System Management*, 3-4
- QMGCLI task, *System Management*, 3-2
- QMGSTART.CMD file, *System Management*, 3-2

QMGSTART.CMD file (cont'd.)

- invoking, *System Management*, 3-3
- Q register, *Debugging*, 2-6, 5-3, 7-2; *XDT*, 2-12
- indicator, *Debugging*, 2-9, 7-3; *XDT*, 2-14
- \$QTRAN routine
- calling, *System Management*, 10-19
 - description, *System Management*, 10-19
 - example of call to, *System Management*, 10-19
- \$QTRN1 routine
- calling, *System Management*, 10-19
 - description, *System Management*, 10-19
 - example of call to, *System Management*, 10-20
- \$QTRN2 routine
- calling, *System Management*, 10-20
 - description, *System Management*, 10-20
- QUA attribute, *System Management*, 18-47
- QUADWORD numeric data type
- CFL, *Error Logging*, 5-5
- QUADWORD value
- equivalent string, *Error Logging*, 5-4
- Qualifier, *DCL*, 1-9
- See also individual qualifier entries
 - abbreviating, *DCL*, 1-12
 - command, *Crash Dump Analyzer*, 2-12 to 2-14
 - crash-input, *Crash Dump Analyzer*, 2-15 to 2-20
 - date-related, *DCL*, 4-8
 - DCL*, *Introduction*, 3-1
 - LINK command, *Task Builder*, 11-1 to 11-71
 - summary, *Task Builder*, 11-3 to 11-9
- Quantity register
- See Q register
- QUE /AS command, *System Management*, 3-29
- assigning batch queues, *System Management*, 3-13
 - assigning print queues, *System Management*, 3-9
- QUE /CR command, *System Management*, 3-17
- functions, *System Management*, 3-19
 - initializing batch queues, *System Management*, 3-12
 - initializing print queues, *System Management*, 3-5

- QUE /CR command (cont'd.)
 - queue types
 - BATCH, *System Management*, 3-17
 - PRINT, *System Management*, 3-17
 - switches, *System Management*, 3-19
- QUE /DEA command, *System Management*, 3-30
- QUE /DEL:Q command, *System Management*, 3-26
- QUE /DEL command, *Batch and Queue*, 1-9
 - format, *Batch and Queue*, 2-10
- QUE /HO command
 - format
 - entry number, *Batch and Queue*, 2-22
 - job name, *Batch and Queue*, 2-22
- QUE /KIL command, *System Management*, 3-31
- QUE /LI:DEV command
 - format, *Batch and Queue*, 2-18
- QUE /LI command, *Batch and Queue*, 2-14
 - display, *Batch and Queue*, 2-14 to 2-17
 - format, *Batch and Queue*, 2-14
 - switches, *Batch and Queue*, 2-14
- QUE /MOD command
 - example, *Batch and Queue*, 2-19
 - file format
 - switches, *Batch and Queue*, 2-19
 - job format
 - switches, *Batch and Queue*, 2-19
- QUE /REL command
 - format
 - entry number, *Batch and Queue*, 2-22
 - job name, *Batch and Queue*, 2-22
- QUE /SP command, *System Management*, 3-19
 - functions
 - /BA, *System Management*, 3-20
 - interactive use, *System Management*, 3-11
 - /INPUT, *System Management*, 3-20
 - /SP, *System Management*, 3-20
 - /SP/EX, *System Management*, 3-20
 - switches
 - /FL, *System Management*, 3-21
 - /FO, *System Management*, 3-21
 - /LOW, *System Management*, 3-23
 - /NM, *System Management*, 3-23
 - /NOLO, *System Management*, 3-24
 - /QUEUE, *System Management*, 3-20
 - /SHR, *System Management*, 3-8, 3-23
 - /TERM, *System Management*, 3-20
- QUE /STA:QMG command, *System Management*, 3-41
 - starting QMG, *System Management*, 3-4
- QUE /STA:QUE command, *System Management*, 3-40
- QUE /STA command, *System Management*, 3-36
 - functions, *System Management*, 3-36
 - options, *System Management*, 3-36
 - /AL, *System Management*, 3-37
 - :BA, *System Management*, 3-37
 - /FL, *System Management*, 3-37
 - /FO, *System Management*, 3-37
 - :FW, *System Management*, 3-37
 - :NE, *System Management*, 3-37
 - overview, *System Management*, 3-37
 - :PA, *System Management*, 3-37, 3-38
 - :RES, *System Management*, 3-38
- QUE /STO:QMG command, *System Management*, 3-35
- QUE /STO:QUE command, *System Management*, 3-34
- QUE /STO command, *System Management*, 3-32
 - functions, *System Management*, 3-32
 - options, *System Management*, 3-32
 - :AB, *System Management*, 3-33
 - :EOF, *System Management*, 3-33
 - :EOJ, *System Management*, 3-33
- QUE /UNSP command, *System Management*, 3-27
 - functions, *System Management*, 3-27
- \$QUEBF routine, *Writing I/O Driver*, 1-16
- QUERY.DIC file, *System Management*, 10-17
- Query mode
 - RMSBCK utility, *RMS-11 Utilities*, 6-5 to 6-7, 6-10
 - RMSRST utility, *RMS-11 Utilities*, 7-6 to 7-8, 7-11
- Question mark (?)
 - ODT, *Program Development*, 5-3
 - used to generate local symbols, *MACRO-11*, 6-10
 - user input error, *Debugging*, A-1; XDT, 3-1
- Queue
 - batch, *System Management*, 3-17
 - assigning, *System Management*, 3-13
 - initializing, *System Management*, 3-12
 - displaying information, *Batch and Queue*, 2-1
 - general, *System Management*, 3-10

Queue (cont'd.)
 I/O optimization, *System Management*, 14-1
 job
 holding, *Batch and Queue*, 2-1
 releasing, *Batch and Queue*, 2-1
 status
 altering, *Batch and Queue*, 2-1
 print, *System Management*, 3-17
 assigning, *System Management*, 3-9
 device-specific, *System Management*, 3-10
 Queue I/O directive
 BYE command, MCR, 3-36
 SET /MAXPKT command, MCR, 3-172
 soliciting input, MCR, 2-14
 Queue I/O Request and Wait directive, *Executive*, 5-172
 Queue I/O Request directive, *Executive*, 5-168
 Queue management subsystem, *System Management*, 3-2
 Queue Manager
 See also QMG
 SYSGEN question, *System Generation*, 3-28
 Queue MCR Command Line function (GIN\$), *Executive*, 5-117
 Queue name: switch
 PRI command, *Batch and Queue*, 2-3
 Queue name job switch
 SUB command, *Batch and Queue*, 3-15
 Queue name parameter
 DELETE command, *Batch and Queue*, 2-10
 Queue optimization, MCR, 3-174; *Writing I/O Driver*, 1-17
 algorithms, MCR, 3-174
 entry point, *Writing I/O Driver*, 4-61
 fairness-count, MCR, 3-174
 /QUEUE qualifier
 PRINT command, *Batch and Queue*, 2-3
 SUBMIT command, *Batch and Queue*, 3-15
 /QUEUE switch
 QUE /SP command, *System Management*, 3-20
 Quiet mode, *Indirect*, 2-55
 /QUIET subkeyword
 COMMAND LINE INTERPRETER
 command, MCR, 3-44
 QUIT command
 EDT editor, *Introduction*, 2-10
 RMSDES utility, *RMS-11 Utilities*, 2-2, 2-12, 2-18

Quotation mark ("), DCL, 1-14
 Quotation mark operator (")
 See Operator
 Quoted string
 remote file specification, *RMS-11 User's Guide*, B-2
 \$QUPKT Executive routine, *Error Logging*, 4-26

R

R.FIX parameter
 fixed-length records, *I/O Operations*, 3-8
 R.FIX file attribute, *I/O Operations*, 2-6
 R.SEQ parameter
 sequenced records, *I/O Operations*, 3-8
 R.SEQ file attribute, *I/O Operations*, 2-6
 R.VAR parameter
 variable-length records, *I/O Operations*, 3-8
 R.VAR file attribute, *I/O Operations*, 2-6
 /R5 switch
 DMP utility, *Utilities*, 5-7
 R\$-family macro, *RMS-11 Macro*, 2-10
 declaring, *RMS-11 Macro*, C-2
 RA60 disk, *I/O Drivers*, 4-4
 RA80 disk, *I/O Drivers*, 4-4
 RA81 disk, *I/O Drivers*, 4-4
 RAB, *RMS-11 Intro*, 4-8
 initializing, *RMS-11 Macro*, 2-10
 summary, *RMS-11 Macro*, 6-115
 RAB\$B macro, *RMS-11 Macro*, C-2
 RAB\$E macro, *RMS-11 Macro*, 2-10
 declaring, *RMS-11 Macro*, C-2
 <RAD50> symbol, *Indirect*, 2-11
 .RAD50 directive, *MACRO-11*, 5-22
 character equivalents, *MACRO-11*, 5-23
 formula, *MACRO-11*, 5-23
 inserting special values with angle brackets, *MACRO-11*, 5-23
 summary, *MACRO-11*, 5-2
 valid characters, *MACRO-11*, 5-22
 RAD50 print radix
 CFL, *Error Logging*, 5-5
 Radix-50
 character set, *Debugging*, 7-4
 displaying, *Debugging*, 4-7
 evaluating, *Debugging*, 7-4
 numeric equivalents, *Debugging*, 7-4
 opening, *Debugging*, 4-7

- Radix-50 (cont'd.)
 - operator
 - word mode, *Debugging*, 2-6, 4-7; XDT, 2-12
 - separator, *Debugging*, 7-4; XDT, 2-10
 - Radix-50 character set, *MACRO-11*, A-8
 - Radix-50 character terminates operator field, *MACRO-11*, 1-3
 - Radix-50 conversion
 - ASCII to Radix-50 (\$CAT5), *System Library*, 4-8
 - ASCII with blanks to Radix-50 (\$CAT5B), *System Library*, 4-9
 - Radix-50 to ASCII (\$C5TA), *System Library*, 5-13
 - Radix-50 storage
 - See also .RAD50 directive
 - temporary with `R, *MACRO-11*, 5-23
 - Radix control, *MACRO-11*, 5-25
 - changing default, *MACRO-11*, 2-13
 - list of temporary operators, *MACRO-11*, 5-26
 - temporary, *MACRO-11*, 2-13
 - when to use temporary, *MACRO-11*, 5-26
 - .RADIX directive, *MACRO-11*, 5-25
 - discussed, *MACRO-11*, 2-13
 - restriction if .RADIX 16, *MACRO-11*, 5-26
 - summary, *MACRO-11*, 5-2
 - Random access, *RMS-11 User's Guide*, 1-9; *RMS-11 Intro*, 2-4; *I/O Operations*, 2-10
 - by key, *RMS-11 User's Guide*, 1-12; *RMS-11 Intro*, 3-12
 - FIND, *RMS-11 User's Guide*, 1-16
 - GET, *RMS-11 User's Guide*, 1-16
 - match criterion, *RMS-11 Intro*, 3-12
 - PUT, *RMS-11 User's Guide*, 1-16
 - by RFA, *RMS-11 User's Guide*, 1-12; *RMS-11 Intro*, 3-11
 - FIND, *RMS-11 User's Guide*, 1-16
 - GET, *RMS-11 User's Guide*, 1-16
 - by VBN, *RMS-11 User's Guide*, 1-20; *RMS-11 Intro*, 3-12
 - match criteria, *RMS-11 User's Guide*, 5-13
 - to indexed files, *RMS-11 User's Guide*, 5-7, 5-9, 6-12
 - to relative files, *RMS-11 User's Guide*, 4-1
 - to sequential files, *RMS-11 User's Guide*, 3-2
 - Random access mode, *I/O Operations*, 3-20
 - record attribute, *I/O Operations*, 3-9
- RANDOM command
 - IOX, *System Management*, 12-44
 - effect on INTERLEAVE command, *System Management*, 12-44
 - examples, *System Management*, 12-44
 - FILES-11, SELECT, and VERIFY
 - command line, *System Management*, 12-44
 - Random I/O, *I/O Operations*, 2-19
 - Random mode
 - PUT\$R macro
 - locating mode execution, *I/O Operations*, 3-29
 - writing logical record, *I/O Operations*, 3-28
 - Range
 - EDT editor, *Introduction*, 2-11 to 2-14
 - Trace program, *Debugging*, 8-3
 - RANGE command
 - IOX, *System Management*, 12-45
 - default range, *System Management*, 12-45
 - display command, *System Management*, 12-45
 - examples, *System Management*, 12-45
 - logical names, *System Management*, 12-45
 - parameter command, *System Management*, 12-45
 - /RA switch
 - RMSBCK utility, *RMS-11 Utilities*, 6-6 to 6-7, 6-9
 - RMSRST utility, *RMS-11 Utilities*, 7-8, 7-11
 - RATE setup command, *System Management*, 7-8, 7-14, 7-17, 7-21
 - RB\$-family symbol
 - declaring, *RMS-11 Macro*, C-2
 - \$RBCAL macro, *RMS-11 Macro*, C-3
 - RBN, *System Management*, 13-4
 - primary, *System Management*, 13-6
 - secondary, *System Management*, 13-6
 - RC25 disk, *I/O Drivers*, 4-5
 - dismounting, *I/O Drivers*, 4-13
 - RCLOKB: subroutine
 - read 16-bit clock (K-series), *I/O Drivers*, 13-23
 - RCML\$ macro, *I/O Operations*, 6-11
 - Rcnt parameter
 - device-specific (UNIBUS switch driver), *I/O Drivers*, 14-4
 - R command, *Debugging*, 2-9; XDT, 2-14

- R command (cont'd.)
 - relocation register, *Program Development*, 5-3
 - ZAP utility, *Utilities*, 15-19
- RCST\$ directive, *Executive*, 5-174
 - summary, *I/O Operations*, F-3
 - UNSTOP command, *MCR*, 2-213
- /RC switch
 - DMP utility, *Utilities*, 5-6
 - VFY utility, *Utilities*, 14-6
- RCT task, *System Management*, 1-16, 13-1
 - activation, *System Management*, 13-3
 - bad block handling
 - steps, *System Management*, 13-3
 - bad block replacement
 - incomplete, *System Management*, 13-5
 - Error Logger and, *System Management*, 13-6
 - installing, *System Management*, 13-1
 - interaction with BAD, *System Management*, 13-1
 - MSCP configuration and, *System Management*, 13-3
 - recursion counter, *System Management*, 13-5
 - write-back cache corruption, *System Management*, 13-5
- RCVD\$ directive, *Executive*, 5-176
 - summary, *I/O Operations*, F-3
- RCVX\$ directive, *Executive*, 5-178
 - summary, *I/O Operations*, F-3
- RD31 disk, *I/O Drivers*, 4-5
- RD51 disk, *I/O Drivers*, 4-5
- RD52 disk, *I/O Drivers*, 4-6
- RD53 disk, *I/O Drivers*, 4-6
- RD54 disk, *I/O Drivers*, 4-6
- RD: driver, *System Management*, 1-12, 4-4
- RDAF\$ directive, *Executive*, 5-181; *I/O Drivers*, 1-7
- RDB, *Executive*, 3-10
 - assigning values, *Executive*, 3-19
 - format, *Executive*, 3-10
 - generating, *Executive*, 3-12, 3-14
- RDBBK\$, *Executive*, 3-12
- RDBDF\$, *Executive*, 3-12
- RDEF\$ directive, *Executive*, 5-183
- .RDFDR routine
 - reading \$\$FSR2 default directory string, *I/O Operations*, 4-3
- .RDFPP routine
 - reading \$\$FSR2 default file protection word, *I/O Operations*, 4-5
- .RDFUI routine
 - reading default UIC, *I/O Operations*, 4-4
- \$RDPAG (Read page), *System Library*, 8-36
- /RD switch
 - RMSBCK utility, *RMS-11 Utilities*, 6-8 to 6-9
- RDXF\$ directive, *Executive*, 5-184; *I/O Drivers*, 1-7
- REA command
 - See also REASSIGN command
- VMR
 - definition, *System Management*, 5-36
 - examples, *System Management*, 5-36
 - format, *System Management*, 5-36
 - parameters, *System Management*, 5-36
- Read/write
 - access declaration, *RMS-11 User's Guide*, 2-6
- Read 16-bit clock
 - K-series, *I/O Drivers*, 13-21, 13-23
- Read \$\$FSR2
 - default directory string, *I/O Operations*, 4-3
- READ\$ macro, *I/O Operations*, 1-8, 3-1
 - block access, *I/O Operations*, 2-11
 - end-of-file, *I/O Operations*, 3-33
 - example, *I/O Operations*, 3-32
- FD.RWM parameter
 - block I/O, *I/O Operations*, 2-10
- FDB
 - file operation, *I/O Operations*, 3-33
- file processing
 - reading virtual block, *I/O Operations*, 3-30
- format file processing, *I/O Operations*, 3-30
- virtual block number, *I/O Operations*, 3-31
- READ_AHEAD option, *System Management*, 15-6
 - default extent size for, *System Management*, 15-7
- MOUNT /CACHE command, *MCR*, 3-112
- SET /CACHE command, *MCR*, 3-160
- Readable-block context, *RMS-11 Macro*, 4-12
- Read access, *MCR*, 2-3
 - common region, *MCR*, 3-98; *System Management*, 5-24
- file
 - initializing volumes with, *MCR*, 3-88
 - specifying default, *MCR*, 3-80
 - specifying default for mounted volume, *MCR*, 3-113

- Read access
 - file (cont'd.)
 - specifying personal default, MCR, 3-164
 - UFD
 - establishing, MCR, 3-209
 - volume
 - initializing volumes with, MCR, 3-91
 - specifying default, MCR, 3-82
 - specifying default for mounted volume, MCR, 3-115
- Read access function
 - F11ACP, *I/O Operations*, H-12
 - file open, *I/O Operations*, 2-14
 - shared, *I/O Operations*, 1-14
- Read-ahead file processing, *I/O Operations*, 2-19
- Read All Event Flags directive, *Executive*, 5-181
- Read command
 - EDI editor, *Utilities*, 7-34
- .READ directive, *Indirect*, 2-85
- Read Event Flag directive, *Executive*, 5-183
- Read Extended Event Flags directive, *Executive*, 5-184
- Read function
 - after prompt
 - TTDRV, *I/O Drivers*, 2-16, 2-20, 2-30, 2-42
 - VTDRV, *I/O Drivers*, 3-7
 - all characters (TTDRV), *I/O Drivers*, 2-15, 2-29, 2-38, 2-41, 2-44, 2-46, 2-48
 - checking (CRDRV), *I/O Drivers*, 9-4
 - checkpointing (TTDRV), *I/O Drivers*, 2-16
 - converting lowercase (TTDRV), *I/O Drivers*, 2-15, 2-29
 - DDDRV, *I/O Drivers*, 5-4
 - default input (TTDRV), *I/O Drivers*, 2-15, 2-29
 - default UIC, *I/O Operations*, 4-4
 - destination address (XEDRV), *I/O Drivers*, 10-18
 - error (tape driver), *I/O Drivers*, 6-13
 - Ethernet address (XEDRV), *I/O Drivers*, 10-16
 - file protection word
 - default, *I/O Operations*, 4-5
 - logical block, *I/O Drivers*, 1-30
 - TTDRV, *I/O Drivers*, 2-15
 - special terminator, *I/O Drivers*, 2-45

Read function (cont'd.)

- logical record file processing, *I/O Operations*, 3-18
- logical record random mode file processing, *I/O Operations*, 3-22
- logical record sequential mode, *I/O Operations*, 3-23
- no echo (TTDRV), *I/O Drivers*, 2-16, 2-29, 2-31, 2-40, 2-44, 2-46, 2-48
 - TF.RNE, *I/O Drivers*, 2-39
- no filter (TTDRV), *I/O Drivers*, 2-16, 2-29
- pass through (TTDRV), *I/O Drivers*, 2-16, 2-30
- process escape sequence (TTDRV), *I/O Drivers*, 2-15, 2-29
- protocol type (XEDRV), *I/O Drivers*, 10-17
- special terminator (TTDRV), *I/O Drivers*, 2-17, 2-30, 2-44
 - TF.RNE, *I/O Drivers*, 2-39
- tape driver, *I/O Drivers*, 6-8
- terminator (TTDRV)
 - CTRL/C, *I/O Drivers*, 2-70
 - no echo, *I/O Drivers*, 2-17
 - table, *I/O Drivers*, 2-17, 2-46
- timeout
 - TF.TMO (TTDRV), *I/O Drivers*, 2-39
 - TTDRV, *I/O Drivers*, 2-17, 2-31, 2-44, 2-46, 2-48
- virtual block, *I/O Drivers*, 1-31
 - file processing, *I/O Operations*, 3-30
- \$READ macro
 - sequential access, *RMS-11 Macro*, 5-98
 - VBN access, *RMS-11 Macro*, 5-100
- Read-only
 - access declaration, *RMS-11 User's Guide*, 2-6
- Read-Only switch
 - See /RO switch
- READ operation, *RMS-11 Macro*, 4-13; *RMS-11 Intro*, 4-7
 - access modes, *RMS-11 Intro*, 4-7
 - processing, *RMS-11 Intro*, 4-1
- \$READ macro
 - sequential access, *RMS-11 Macro*, 5-92, 5-98
 - VBN access, *RMS-11 Macro*, 5-100
- Ready recovery
 - LPDRV, *I/O Drivers*, 7-5
- Real-time system, *Introduction*, 6-2
- REASSIGN command, MCR, 3-133
 - brief description, MCR, 1-6
 - device, *I/O Drivers*, 1-20

REASSIGN command (cont'd.)

- examples, *MCR*, 3-133
- format, *MCR*, 3-133
- LUN assignment, *I/O Drivers*, 1-4
- parameters, *MCR*, 3-133
- VMR

- See *REA* command

Rebuilding the Supplied System Tasks section,
System Generation, 3-76 to 3-80

Receive By Reference directive, *Executive*,
5-198

Receive By Reference or Stop directive,
Executive, 5-201

Receive-by-reference queue packet
dequeuing, *Executive*, 5-198, 5-201
inserting, *Executive*, 5-259

Receive Data directive, *Executive*, 5-176

Receive Data or Exit directive, *Executive*,
5-178

Receive Data or Stop directive, *Executive*,
5-174

UNSTOP command, *MCR*, 2-213
/RECEIVE qualifier, *Task Builder*, 11-53

Receiver disconnect

- LRDRV, *I/O Drivers*, 11-10

/RECENT qualifier

- SHOW ERROR_LOG command, *Error Logging*, 2-13

Reconfiguration

- components, *System Management*, 4-4
- CON interface, *System Management*,
4-4

- HRC task, *System Management*, 4-4

- RD: driver, *System Management*, 4-4

- definition, *System Management*, 4-1
- timing and, *System Management*, 11-4
- use, *System Management*, 4-4

Reconfiguration driver

- See *RD: driver*

Reconfiguration service

- description, *System Management*, 1-12
- initiating, *System Management*, 4-6

Record

- See also *Record* format

- access mode, *RMS-11 Intro*, 3-11

- key, *RMS-11 Intro*, 3-12

- RFA, *RMS-11 Intro*, 3-11

- sequential, *RMS-11 Intro*, 3-11

- data, *RMS-11 User's Guide*, 5-2; *RMS-11 Intro*, 3-7

- deleting

- See *DELETE* operation

Record (cont'd.)

- fixed-length

- R.FIX parameter, *I/O Operations*, 3-8

- index, *RMS-11 User's Guide*, 5-2, 5-6;

- RMS-11 Intro*, 3-7

- locating

- See *FIND* operation

- moving, *DCL*, 4-53

- processing, *RMS-11 User's Guide*, 1-15

- reading, *Indirect*, 2-85

- See *GET* operation

- replacing

- See *UPDATE* operation

- sequenced

- R.SEQ parameter, *I/O Operations*, 3-8

- variable-length, *I/O Operations*, 1-6

- R.VAR parameter, *I/O Operations*, 3-8

- writing

- See *PUT* operation

Record access, *RMS-11 User's Guide*, 1-12

- See also *Shared* access

Record access initialization, *I/O Operations*,
2-9

Record access mode, *RMS-11 Macro*, 4-3

- See also *Access* mode

Record attribute, *I/O Operations*, 2-6, 3-8

- FD.BLK parameter

- block boundary crossing, *I/O Operations*, 3-9

- FD.CR parameter, *I/O Operations*, 2-6

- line-feed character, *I/O Operations*, 3-9

- FD.FTN parameter, *I/O Operations*, 2-6

- FORTTRAN carriage-control, *I/O Operations*, 3-9

- FD.RAN parameter

- random access mode, *I/O Operations*,
3-9

- FD.RPN parameter

- carriage-control word, *I/O Operations*,
3-9

- locate mode, *I/O Operations*, 3-9

- sequential mode, *I/O Operations*, 3-9

- FD.RWM parameter

- process with block I/O, *I/O Operations*,
3-9

Record buffer

- declaring size, *Task Builder*, 12-24

Record buffer task

- locate mode, *I/O Operations*, 3-26

Record context, *RMS-11 Macro*, 4-3

- Record file address
 - See RFA
- Record fixed-length PUT\$ macro, *I/O Operations*, 3-26
- Record format, *RMS-11 User's Guide*, 1-11, 1-18; *RMS-11 Intro*, 3-1
 - and file organizations, *RMS-11 User's Guide*, 1-20, 2-15
 - fixed-length, *RMS-11 User's Guide*, 1-11, 2-15; *RMS-11 Intro*, 3-2
 - indexed files, *RMS-11 User's Guide*, 6-1
 - relative files, *RMS-11 User's Guide*, 4-2
 - RMSCNV utility, *RMS-11 Utilities*, 4-14
 - RMSDEF utility, *RMS-11 Utilities*, A-8
 - sequential files, *RMS-11 User's Guide*, 3-3
 - stream, *RMS-11 User's Guide*, 1-11, 2-16; *RMS-11 Intro*, 3-4
 - tape, *I/O Operations*, 5-5
 - undefined, *RMS-11 User's Guide*, 1-11, 2-17; *RMS-11 Intro*, 3-4
 - variable-length, *RMS-11 User's Guide*, 1-11, 2-15; *RMS-11 Intro*, 3-2
 - and medium, *RMS-11 User's Guide*, 2-15
 - VFC, *RMS-11 User's Guide*, 1-11, 2-16; *RMS-11 Intro*, 3-2
- Record I/O, *I/O Operations*, 2-9, 2-10
 - FSR, *I/O Operations*, 2-35, 2-36
 - FSRZ
 - multibuffering, *I/O Operations*, 2-36
 - locate mode
 - FD.PLC parameter, *I/O Operations*, 3-6
 - macro calls, *I/O Operations*, 2-9
 - mode, *I/O Operations*, 1-10
 - multibuffering, *I/O Operations*, 1-11
 - operation, *I/O Operations*, 1-8
 - random
 - FD.RAN parameter, *I/O Operations*, 3-6
 - synchronization, event flag, *I/O Operations*, 2-17
- Record Management Services
 - See RMS-11
- Record operation, *RMS-11 Macro*, 4-9; *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - See also Operation
- Record-operation macro
 - declaring, *RMS-11 Macro*, C-3
 - \$DELETE, *RMS-11 Macro*, 5-25
- Record-operation macro (cont'd.)
 - \$FIND, *RMS-11 Macro*, 5-51, 5-54
 - \$GET, *RMS-11 Macro*, 5-60, 5-63, 5-67
 - \$PUT, *RMS-11 Macro*, 5-91, 5-95
 - \$TRUNCATE, *RMS-11 Macro*, 5-122
 - \$UPDATE, *RMS-11 Macro*, 5-124
- Record-output handling, *RMS-11 User's Guide*, 1-19
- Record processing, *RMS-11 Macro*, 4-3
- Record reference vector
 - See RRV
- RECORDS command
 - IOX, *System Management*, 12-46
 - examples, *System Management*, 12-46
 - initial default, *System Management*, 12-46
 - overriding default, *System Management*, 12-46
 - SELECT command line, *System Management*, 12-46
- Record sequenced PUT\$ macro, *I/O Operations*, 3-24
- Record size, *RMS-11 User's Guide*, 1-18
 - FDB, *I/O Operations*, 3-9
 - fixed-length, *I/O Operations*, 2-7
 - indexed files, *RMS-11 User's Guide*, 6-1
 - largest, *I/O Operations*, 2-8
 - relative files, *RMS-11 User's Guide*, 4-2
 - sequential files, *RMS-11 User's Guide*, 3-2
 - UPDATE operation, *RMS-11 User's Guide*, 2-16
- Record stream, *RMS-11 Macro*, 4-3
- Record transfer mode, *RMS-11 Intro*, 4-6
 - indexed files, *RMS-11 User's Guide*, 7-6
 - locate mode, *RMS-11 Intro*, 4-6
 - move mode, *RMS-11 Intro*, 4-6
 - relative files, *RMS-11 User's Guide*, 4-12
 - sequential files, *RMS-11 User's Guide*, 3-13
- Record type
 - object module, *Task Builder*, A-1
- Record variable-length PUT\$ macro, *I/O Operations*, 3-26
- Recoverable error, *System Management*, 11-3
 - /RECOVER qualifier
 - EDIT command, *DCL*, 4-21
- Recovery check
 - CRDRV, *I/O Drivers*, 9-5
- Recursive Translation of Logical Name
 - directive, *Executive*, 5-186
- RED command
 - See also REDIRECT command
 - format, *System Management*, 9-1

RED command (cont'd.)

- parameters, *System Management*, 9-2
- redirecting CO, *System Management*, 9-1
- VMR
 - definition, *System Management*, 5-37
 - examples, *System Management*, 5-37
 - format, *System Management*, 5-37
 - parameters, *System Management*, 5-37
 - restrictions, *System Management*, 5-37
- Redirect algorithm, *Writing I/O Driver*, 3-2
- REDIRECT command, MCR, 3-134; *System Management*, 9-9
 - See also RED command
 - and pseudo devices, MCR, 2-10
 - brief description, MCR, 1-5
 - device, *I/O Drivers*, 1-20
 - examples, MCR, 3-134
 - format, MCR, 3-134
 - parameters, MCR, 3-134
 - VMR
 - See RED command
- Reentry vector register
 - See X register
- Reference
 - search, *Debugging*, 6-3
- REG argument
 - for .ENABL/.DSABL, MACRO-11, 5-15
- Region, *Executive*, 3-5; *Task Builder*, 2-18
 - absolute
 - symbol definition file, *Task Builder*, 5-11
 - address
 - accessing, MCR, 3-128
 - attaching, *Executive*, 3-6, 5-22
 - checkpointing, *System Management*, 1-3
 - /CO/LI/PI switch, *Task Builder*, 5-6
 - common, MCR, 3-63
 - accessing, MCR, 3-98
 - installed, MCR, 3-97
 - protecting, MCR, 3-97
 - status, MCR, 3-40
 - synchronizing, MCR, 3-99
 - tasks, MCR, 3-40
 - unfixing, MCR, 3-211
 - creating, *Task Builder*, 2-18
 - data caching, MCR, 3-111, 3-159
 - detaching, *Executive*, 5-72
 - disk data cache, *System Management*, 15-16
 - format, *System Management*, 15-16
 - dynamic, *Executive*, 3-5; *Task Builder*, 2-18, 2-20

Region

- dynamic (cont'd.)
 - See also Dynamic region
 - creating, *Executive*, 5-53; *Task Builder*, 5-46
 - example, *Task Builder*, 5-46 to 5-49
 - dynamic storage, *System Management*, 5-62
 - fixing, *System Management*, 5-18
 - getting parameters, *Executive*, 5-136
 - memory, *System Management*, 1-1
 - protecting, *Executive*, 3-8
 - read/write access, *System Management*, 5-24
 - read-only, *System Management*, 5-24
 - removing, MCR, 3-135
 - shareable, *Executive*, 3-5
 - shared, *Executive*, 3-5; *Task Builder*, 5-1
 - See also Shared region
 - static common, *Executive*, 3-5
 - STB file, *Task Builder*, 5-6
 - task, *Executive*, 3-5; *Task Builder*, 2-20
 - unfixing, *System Management*, 5-80
- Region Definition Block
 - See RDB
- Region descriptor, *Task Builder*, B-25
- Region ID, *Executive*, 3-5
 - determining, *Executive*, 5-22
- REGION option
 - MOUNT /CACHE command, MCR, 3-111
 - SET /CACHE command, MCR, 3-159
- REGION setup command, *System Management*, 7-21
- ReGIS character set, MCR, 3-180
- /REGIS keyword
 - SET command, MCR, 3-180
 - SET command (VMR), *System Management*, 5-63
- Register, *Debugging*, 2-5, 5-1
 - A, *Debugging*, 2-6, 5-3, 6-2; XDT, 2-11
 - address expression, *Debugging*, 5-1
 - B, *Debugging*, 2-6, 5-4; XDT, 2-12
 - clearing, *Debugging*, 3-2
 - breakpoint, *Program Development*, 5-6
 - address, *Debugging*, 5-4; XDT, 2-12
 - instruction, *Debugging*, 5-4; XDT, 2-12
 - proceed count, *Debugging*, 5-4; XDT, 2-12
 - C, *Debugging*, 2-6, 5-3; XDT, 2-12
 - indicator, XDT, 2-13
 - cache control, *Crash Dump Analyzer*, 3-2

- Register (cont'd.)
 - conventions
 - at system state, *Writing I/O Driver*, 7-1
 - D, *Debugging*, 2-6, 5-4, 6-2
 - E, *Debugging*, 2-6, 5-4
 - error, *Crash Dump Analyzer*, 3-2
 - F, *Debugging*, 2-6, 4-1, 5-3; XDT, 2-12
 - G, *Debugging*, 2-6, 5-4; XDT, 2-12
 - general, *Crash Dump Analyzer*, 3-2; *Debugging*, 5-1; XDT, 2-11
 - contents, *Debugging*, 5-2
 - examining, *Debugging*, 5-1
 - setting, *Debugging*, 5-1
 - H, *Debugging*, 2-6, 5-3, 6-2; XDT, 2-11
 - I, *Debugging*, 2-6, 5-4; XDT, 2-12
 - indicator, *Debugging*, 2-7, 2-9
 - internal, *Debugging*, 5-2
 - accessing, *Debugging*, 5-2
 - L, *Debugging*, 2-6, 5-3, 6-2; XDT, 2-11
 - M, *Debugging*, 2-6, 5-3, 6-2
 - memory management, *Crash Dump Analyzer*, 3-2
 - memory operations, *Debugging*, 6-1
 - memory system error, *Crash Dump Analyzer*, 3-2
 - page
 - address, *Crash Dump Analyzer*, 3-2
 - description, *Crash Dump Analyzer*, 3-2
 - Q, *Debugging*, 2-6, 5-3, 7-2; XDT, 2-12
 - indicator, XDT, 2-14
 - R, *Debugging*, 2-6, 5-4, 5-5; XDT, 2-12
 - clearing, *Debugging*, 5-6; XDT, 2-14
 - setting, *Debugging*, 2-9, 5-6; XDT, 2-14
 - relocation, *Program Development*, 5-2, 5-3
 - S, *Debugging*, 2-5, 5-3; XDT, 2-11
 - search limit, *Debugging*, 6-2
 - UNIBUS mapping, *Crash Dump Analyzer*, 3-2
 - V, *Debugging*, 2-6, 5-4
 - volatile, *Crash Dump Analyzer*, 3-1, 3-3
 - See also Volatile registers
 - W, *Debugging*, 2-5, 5-3
 - X, *Debugging*, 2-6, 5-3, 5-6
 - XDT internal, XDT, 2-11
- Register declaration
 - user-written module, *Error Logging*, 4-30
- Register format report
 - processing, *Error Logging*, 4-10
- Register handling
 - of control swapping function, *System Library*, 2-1
- Register handling (cont'd.)
 - save all Registers (\$SAVAL), *System Library*, 2-2
 - save Registers 0-2 (\$SAVVR), *System Library*, 2-5
 - save Registers 1-5 (.SAVR1), *System Library*, 2-6
 - save Registers 3-5 (\$SAVRG), *System Library*, 2-4
 - Register indicator, *Debugging*, 2-3
 - C register, *Debugging*, 2-3, 7-3; XDT, 2-13
 - current location, *Debugging*, 2-3, 7-3; XDT, 2-10
 - Q register, *Debugging*, 2-3, 7-3; XDT, 2-14
 - Register report
 - RPT, *Error Logging*, 3-13, 3-19
 - Register set, *Debugging*, 5-3
 - /REGISTERS qualifier
 - ANALYZE/ERROR_LOG command, *Error Logging*, 3-13, 3-19
 - See also /FORMAT switch
 - Register symbol, MACRO-11, 2-8
 - default definitions, MACRO-11, 2-8
 - requirements, MACRO-11, 2-9
 - /REG keyword
 - FIX command (VMR), *System Management*, 5-19
 - FIX-IN-MEMORY command, MCR, 3-63
 - OPENREGISTER command, MCR, 3-128
 - REM command (VMR), *System Management*, 5-38
 - UNF command (VMR), *System Management*, 5-80
 - UNFIX command, MCR, 3-211
 - <REGSEG> symbol, *Indirect*, 2-19
 - <REGSIZ> symbol, *Indirect*, 2-19
 - REL argument
 - for .PSECT, MACRO-11, 5-35
 - to ORG\$ macro, *RMS-11 Macro*, 2-3
 - Relational operator
 - CFL expression, *Error Logging*, 5-11 to 5-13, 5-16
 - Relative
 - branch location, *Debugging*, 4-5
 - Relative address, *Crash Dump Analyzer*, 3-1; *Debugging*, 2-2
 - format, *Debugging*, 2-2
 - Relative branch location, *Debugging*, 2-5; XDT, 2-11

Relative file organization, *RMS-11 Macro*, 2-3;
RMS-11 User's Guide, 1-4, 1-12; *RMS-11 Intro*, 3-5

access declarations, *RMS-11 User's Guide*, 4-6

allocation
 DEQ, *RMS-11 User's Guide*, 4-4
 initial, *RMS-11 User's Guide*, 4-3

and remote access, *RMS-11 User's Guide*, B-3

asynchronous operations, *RMS-11 User's Guide*, 4-14

buckets, *RMS-11 User's Guide*, 4-1

cell, *RMS-11 User's Guide*, 4-1; *RMS-11 Intro*, 3-5

CONNECT operation, *RMS-11 User's Guide*, 4-7

contiguity, *RMS-11 User's Guide*, 4-4

deferred write, *RMS-11 User's Guide*, 4-14

DELETE operation, *RMS-11 User's Guide*, 4-7

design, *RMS-11 User's Guide*, 4-1
 allocation, *RMS-11 User's Guide*, 4-3
 bucket size, *RMS-11 User's Guide*, 4-2
 MRN, *RMS-11 User's Guide*, 4-4
 record format, *RMS-11 User's Guide*, 4-2

directory operations, *RMS-11 User's Guide*, 4-15

DISCONNECT operation, *RMS-11 User's Guide*, 4-8

file operations, *RMS-11 User's Guide*, 4-15

FIND operation, *RMS-11 User's Guide*, 4-8

FLUSH operation, *RMS-11 User's Guide*, 4-10

GET operation, *RMS-11 User's Guide*, 4-10, 4-12 to 4-13

I/O techniques, *RMS-11 User's Guide*, 4-14

MRN, *RMS-11 User's Guide*, 4-4

multiple access streams, *RMS-11 User's Guide*, 4-15

multiple buffers, *RMS-11 User's Guide*, 4-15

prologue, *RMS-11 User's Guide*, 4-1

PUT operation, *RMS-11 User's Guide*, 4-11 to 4-12

random access
 by key, *RMS-11 User's Guide*, 4-1
 by RFA, *RMS-11 User's Guide*, 4-1

record operations, *RMS-11 User's Guide*, 4-7

record size, *RMS-11 User's Guide*, 4-2

Relative file organization (cont'd.)

record transfer modes, *RMS-11 User's Guide*, 4-12
 move mode, *RMS-11 User's Guide*, 4-12

REWIND operation, *RMS-11 User's Guide*, 4-12

RRN, *RMS-11 Intro*, 3-6

sequential access, *RMS-11 User's Guide*, 4-1

shared access, *RMS-11 User's Guide*, 4-6
 block access, *RMS-11 User's Guide*, 4-6
 record access, *RMS-11 User's Guide*, 4-6

sharing declarations, *RMS-11 User's Guide*, 4-6

stream operations, *RMS-11 User's Guide*, 4-7

structure, *RMS-11 User's Guide*, 4-1
 conceptual, *RMS-11 User's Guide*, 4-1
 physical, *RMS-11 User's Guide*, 4-1

UPDATE operation, *RMS-11 User's Guide*, 4-12 to 4-13

Relative record number
 See RRN

RELEASE command
 format
 entry number, *Batch and Queue*, 2-22
 job name, *Batch and Queue*, 2-22
 RELEASE/ENTRY, DCL, 4-94, 9-30
 RELEASE/JOB, DCL, 4-94, 9-30

Release data buffer
 K-series, *I/O Drivers*, 13-23

Release notes, *MACRO-11*, J-1

Relocatable address, *Debugging*, 2-2, 5-5;
 XDT, 2-13
 calculating, *Debugging*, 2-8, 7-1

Relocatable expression
 complex, *MACRO-11*, 2-16
 definition, *MACRO-11*, 2-15

Relocation
 discussion, *MACRO-11*, 3-1

Relocation and linking, *MACRO-11*, 3-1

Relocation directory record type, *Task Builder*, A-14

Relocation register, *Program Development*, 5-2, 5-3
 See also R register
 R command, *Program Development*, 5-3

\$RELOC routine, *Writing I/O Driver*, 7-30

\$RELOP routine, *Writing I/O Driver*, 7-30

REM command
 See also REMOVE command

REM command (cont'd.)

- VMR
 - definition, *System Management*, 5-38
 - examples, *System Management*, 5-39
 - format, *System Management*, 5-38
 - notes, *System Management*, 5-38
 - parameters, *System Management*, 5-38
 - /REG keyword, *System Management*, 5-38
- .REM directive, *MACRO-11*, 5-13
 - summary, *MACRO-11*, 5-2
- /REM option
 - command
 - MFT, *Utilities*, C-8
 - MFT command, *Utilities*, C-7, C-8
- /REMOTE keyword
 - SET command, *MCR*, 3-181
 - SET command (VMR), *System Management*, 5-63 to 5-64
- Remote line
 - clearing characteristic (TTDRV), *I/O Drivers*, 2-84
- /REMOTE option
 - command
 - COPY, *Utilities*, C-8
 - DELETE, *Utilities*, C-8
- Remote terminal
 - IO.EIO (TTDRV), *I/O Drivers*, 2-27
 - setting baud rate, *System Management*, 5-63
- Remove Affinity directive, *Executive*, 5-190
- REMOVE command, *MCR*, 3-135, 3-140;
 - DCL, 7-37 to 7-38, 9-30
 - brief description, *MCR*, 1-6
 - example, *MCR*, 3-135
 - format, *MCR*, 3-135
 - parameter, *MCR*, 3-135
- VMR
 - See REM command
- REMOVE operation, *RMS-11 User's Guide*, 1-17
 - remote access, *RMS-11 User's Guide*, B-1
 - wildcard operations, *RMS-11 User's Guide*, A-4
- .REMOVE routine
 - deleting directory entry, *I/O Operations*, 4-19
- RENAME command, *DCL*, 4-50 to 4-52, 9-30;
 - Introduction, 3-8
- \$RENAME macro, *RMS-11 Macro*, 5-105
 - example, *RMS-11 Macro*, 7-15
- RENAME operation, *RMS-11 Macro*, 3-6, 5-97, 5-105; *RMS-11 User's Guide*, 1-17

RENAME operation (cont'd.)

- BDB requirement, *RMS-11 Macro*, 2-8
- file versions, *RMS-11 User's Guide*, A-3
- I/O buffer requirement, *RMS-11 Macro*, 2-7
- IFAB requirement, *RMS-11 Macro*, 2-5
- remote access, *RMS-11 User's Guide*, B-1
- wildcard loop, *RMS-11 Macro*, 3-10
- wildcard operations, *RMS-11 User's Guide*, A-4
- .RENAME routine
 - renaming file, *I/O Operations*, 4-23
- Rename Task function (GIN\$), *Executive*, 5-115
- Renew command
 - EDI editor, *Program Development*, 2-14; *Utilities*, 7-35
- REPEAT key, *DCL*, 3-14
- Replacement
 - bad block
 - RCT task, *System Management*, 1-16
- Replacement block number
 - See RBN
- /REPLACE qualifier
 - LIBRARY command, *Program Development*, 6-10
- REPORTERRORS command
 - IOX, *System Management*, 12-47
 - Interactive mode, *System Management*, 12-47
 - restrictions, *System Management*, 12-47
- Report generator
 - See DATATRIEVE-11 program
- Report Generator Task
 - See RPT
- /REPORT switch
 - RPT, *Error Logging*, 3-23, 3-26
 - See also /COMMAND qualifier
 - strings, *Error Logging*, 3-26
- .REPT directive, *MACRO-11*, 6-20
 - restriction using label, *MACRO-11*, 6-18
 - summary, *MACRO-11*, 6-2
- \$REQU1 routine, *Writing I/O Driver*, 7-31
- \$REQUE routine, *Writing I/O Driver*, 7-31
- Request and Pass Offspring Information
 - directive, *Executive*, 5-191
 - See also RPOI\$ directive
- REQUEST command, *DCL*, 3-36 to 3-37, 9-31
- Request Task directive, *Executive*, 5-195
 - effect on default TI, *MCR*, 2-10
 - running an installed task, *MCR*, 2-21

- R error
 - invalid redefinition of default register symbol, *MACRO-11*, 2-9
 - invalid register symbol, *MACRO-11*, 2-9
- Reschedule interval, *System Management*, 5-41
- running task at, *MCR*, 3-140
- RES command
 - See RESUME command
- RESCOM option, *Task Builder*, 5-16, 12-28 to 12-29
- RESEQUENCE command
 - EDT editor, *Introduction*, 2-14, 2-15
- Reserved symbol, *Indirect*, 2-30
- /RESET_COUNTS qualifier
 - SET ERROR_LOG command, *Error Logging*, 2-10
 - See also /RESET switch
- Reset Accounting Transaction Block, *System Management*, 10-35
- RESET function
 - EDT editor, *Introduction*, 2-9
- /RESET switch
 - ELI, *Error Logging*, 2-9, 2-10
 - See also /RESET_COUNTS qualifier
- Reset switch
 - CRDRV, *I/O Drivers*, 9-5
- /RESIDENT_OVERLAYS qualifier, *Task Builder*, 11-54
- Resident common, *Task Builder*, 2-20
- linking task to, *Task Builder*, 12-9
- MACRO-11 example, *Task Builder*, 5-20 to 5-29
- Resident database
 - See Database
- Resident driver
 - See Driver
- Resident library, *RMS-11 User's Guide*, 8-1, 8-8; *Task Builder*, 5-1
- FCS types, *Task Builder*, 5-62
- linking, *Task Builder*, 5-65 to 5-67
- to supervisor-mode library, *Task Builder*, 8-24
- linking task to, *Task Builder*, 12-9
- MACRO-11 example, *Task Builder*, 5-36 to 5-45
- RMSRES, *RMS-11 User's Guide*, 8-6, 8-9
- rounding address, *Task Builder*, 12-33
- supervisor-mode library, *Task Builder*, 8-24
- /RES job switch
 - QUE /MOD command, *Batch and Queue*, 2-19
- /RES job switch (cont'd.)
 - SUB command, *Batch and Queue*, 3-15
- RESLIB option, *Task Builder*, 5-16, 12-28 to 12-29, 12-30
- :RES option
 - QUE /STA command, *System Management*, 3-38
- Resource Accounting, *MCR*, 2-3; *DCL*, 3-8, 3-11, 9-40
- See also Transaction file
- account blocks, *System Management*, 10-23
- commands
 - SET ACCOUNTING, *System Management*, 10-9
 - SHOW ACCOUNTING, *System Management*, 10-11
 - SHOW ACCOUNTING/DATATRIEVE, *System Management*, 10-17
 - SHOW ACCOUNTING/INFORMATION, *System Management*, 10-12
 - SHOW ACCOUNTING/TRANSACTION__FILE, *System Management*, 10-11, 10-13
 - START/ACCOUNTING, *System Management*, 10-5
 - STOP/ACCOUNTING, *System Management*, 10-10
- description, *System Management*, 1-14, 10-1
- device statistics
 - example, *System Management*, 10-7
- messages, *System Management*, 10-53
- POOL_RESERVE parameter, *System Management*, 8-18
- privileged task interface, *System Management*, 10-21
- scan rate, *System Management*, 10-6
- secondary pool, *System Management*, 8-18, 10-5
- statistics scan, *System Management*, 10-6
- summary of control commands, *System Management*, 10-4
- system resources, *System Management*, 10-52
- system statistics, *System Management*, 10-6
- task accounting, *System Management*, 10-6
- transaction interface
 - \$QTRAN routine, *System Management*, 10-19
 - \$QTRN1 routine, *System Management*, 10-19
 - \$QTRN2 routine, *System Management*, 10-20

- Resource Accounting
 - transaction interface (cont'd.)
 - writing, *System Management*, 10-18
 - using DATATRIEVE-11, *System Management*, 10-17
- Resource Monitoring Display
 - See RMD
- RESSUP option, *Task Builder*, 8-4, 12-31 to 12-32
- /RES switch
 - PRI command, *Batch and Queue*, 2-3
- RESTART command
 - IOX, *System Management*, 12-48
 - functions, *System Management*, 12-48
 - Interactive mode
 - restriction, *System Management*, 12-10
- /RESTART qualifier
 - PRINT command, *Batch and Queue*, 2-3
 - SET QUEUE command, *Batch and Queue*, 2-19
 - START/PROCESSOR command, *System Management*, 3-38
 - SUBMIT command, *Batch and Queue*, 3-15
- .RESTORE directive, *MACRO-11*, 5-40
 - assigns attributes to current location
 - counter, *MACRO-11*, 2-12
 - summary, *MACRO-11*, 5-2
 - terminates local symbol block, *MACRO-11*, 2-10
- /RESTRICT subkeyword
 - COMMAND LINE INTERPRETER
 - command, *MCR*, 3-44
- RESUME command, *MCR*, 3-137
 - brief description, *MCR*, 1-6
 - example, *MCR*, 3-137
 - format, *MCR*, 3-137
 - keyword
 - /TERM, *MCR*, 3-137
 - parameter, *MCR*, 3-137
- Resume Task directive, *Executive*, 5-204
- /RE switch
 - PIP utility, *Utilities*, 12-25
 - VFY utility, *Utilities*, 14-6
- Retadd parameter
 - device-specific function
 - receiving (LRDRV), *I/O Drivers*, 11-9
 - transmitting (LRDRV), *I/O Drivers*, 11-4
- RETRIES command
 - IOX (cont'd.)
 - SELECT command line, *System Management*, 12-49
 - VERIFY command line, *System Management*, 12-49
 - write-check, *System Management*, 12-62
- Retries parameter
 - device-specific function
 - transmitting (LRDRV), *I/O Drivers*, 11-4
- Retrieval pointer, *RMS-11 User's Guide*, 8-11
 - in memory, *RMS-11 User's Guide*, 8-11
 - on disk, *RMS-11 User's Guide*, 8-11
- Retry count parameter
 - UNIBUS switch driver
 - IO.CON function, *I/O Drivers*, 14-5
- Retry procedure
 - tape driver, *I/O Drivers*, 6-13
- /RETRY switch
 - BAD utility, *System Management*, 13-1; *Utilities*, 2-5
- RETURN character
 - TTDRV, *I/O Drivers*, 2-71
- RETURN command, *Debugging*, 2-4, 4-2; *XDT*, 2-10
- .RETURN directive, *Indirect*, 2-86
- Return from completion handler, *RMS-11 Macro*, 2-20
- RETURN key, *MCR*, 2-15; *DCL*, 3-12 to 3-13, 3-22 ; *Introduction*, 1-4
- TTDRV, *I/O Drivers*, 2-72
 - using to terminate command, *MCR*, 1-3
- RETURN key command
 - EDI editor, *Utilities*, 7-35
- \$RETURN macro, *RMS-11 Macro*, 2-20
- Return operation, *RMS-11 Macro*, 2-15
- RETURN statement, *Error Logging*, 4-34
 - CFL, *Error Logging*, 5-33
- Retype command
 - EDI editor, *Utilities*, 7-36
- Revector control table, *System Management*, 13-4
 - status codes, *System Management*, 13-4
- /REVISED qualifier
 - BRU utility, *Utilities*, 3-23
- REWIND_MAGTAPE
 - RMSDES utility, *RMS-11 Utilities*, 2-34
- \$REWIND macro, *RMS-11 Macro*, 5-114
- REWIND operation, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - indexed files, *RMS-11 User's Guide*, 7-6

REWIND operation (cont'd.)
 record stream, *RMS-11 Macro*, 4-9
 relative files, *RMS-11 User's Guide*, 4-12
 \$REWIND macro, *RMS-11 Macro*, 5-114
 sequential files, *RMS-11 User's Guide*, 3-11
 /REWIND qualifier
 BRU utility, *Utilities*, 3-24
 RF11 disk controller, *I/O Drivers*, 4-2
 RFA, *RMS-11 User's Guide*, 1-12; *RMS-11 Intro*, 3-11, 3-15
 relative files, *RMS-11 User's Guide*, 4-1
 sequential files, *RMS-11 User's Guide*, 3-2
 RFA record access
 to relative files, *RMS-11 User's Guide*, 4-1
 to sequential files, *RMS-11 User's Guide*, 3-2
 .RFOWN routine
 reading \$\$FSR2 file owner word, *I/O Operations*, 4-7
 Right angle bracket (>), *MACRO-11*, 2-14
 argument delimiter, *MACRO-11*, 2-3
 spaces may increase readability of arguments, *MACRO-11*, 6-6
 special character in *MACRO-11*, *MACRO-11*, 2-2
 Right angle bracket command (>), *Debugging*, 2-5, 4-5; *XTD*, 2-11
 Right parenthesis
 special character in *MACRO-11*, *MACRO-11*, 2-2
 RK05 disk, *I/O Drivers*, 4-3
 RK05F disk, *I/O Drivers*, 4-3
 RK06 disk, *I/O Drivers*, 4-3
 RK07 disk, *I/O Drivers*, 4-3
 RK07 disk kit
 contents, *System Generation*, 2-5
 copying
 on line, *System Generation*, 2-18 to 2-20
 stand alone, *System Generation*, 2-12 to 2-14
 under VAX-11 RSX, *System Generation*, 2-25 to 2-26
 RK07 distribution kit, *System Generation*, 2-4
 RK11 disk controller, *I/O Drivers*, 4-3
 RK611 disk controller, *I/O Drivers*, 4-3
 RL01 disk, *I/O Drivers*, 4-3
 RL02 disk, *I/O Drivers*, 4-3
 RL02 distribution kit, *System Generation*, 2-3
 RL11 disk controller, *I/O Drivers*, 4-3

Rlast parameter
 RCLOKB: subroutine (K-series), *I/O Drivers*, 13-23
 \$RLCB (Release core block), *System Library*, 7-4
 \$RLCB system routine, *RMS-11 Macro*, 2-22
 RLOG\$ directive, *Executive*, 5-186
 RLON\$ directive, *Executive*, 5-186
 RLSBUF: subroutine
 release data buffer
 K-series, *I/O Drivers*, 13-23
 LADRV, *I/O Drivers*, 12-19
 RLSCT subroutine, *Task Builder*, 5-72
 RM02/03 module
 See ERM23 device-level module
 See NRM23 notes module
 RM02 disk, *I/O Drivers*, 4-3
 RM03 disk, *I/O Drivers*, 4-3
 RM05 device-level module, *Error Logging*, 4-8
 RM05 disk, *I/O Drivers*, 4-3
 RM80 disk, *I/O Drivers*, 4-3
 RMAF\$\$ directive, *Executive*, 5-190
 RMD, *Error Logging*, 1-3, 2-9; *System Management*, 7-1; *Introduction*, 6-9
 Active task display, *System Management*, 7-1
 cached device
 Detailed Statistics display, *System Management*, 7-1
 cache region
 General Statistics display, *System Management*, 7-1
 description, *System Management*, 1-13, 7-1
 displaying disk data cache statistics, *System Management*, 15-8, 15-10
 display pages, *System Management*, 7-1
 displays
 Active Task, *System Management*, 7-10
 Cache Region (detailed), *System Management*, 7-21
 Cache Region (general), *System Management*, 7-19
 Help, *System Management*, 7-4
 I/O Counts, *System Management*, 7-15
 Memory, *System Management*, 7-4
 System Statistics, *System Management*, 7-18
 Task Header, *System Management*, 7-13
 error messages, *System Management*, 7-25
 Help display, *System Management*, 7-1
 help page
 description, *System Management*, 1-13

- RMD (cont'd.)
 - I/O count display, *System Management*, 7-1
 - installed copy
 - invoking, *System Management*, 7-2
 - installing, *System Management*, 7-2
 - INSTALL command, *System Management*, 7-2
 - invoking, *System Management*, 7-2
 - format, *System Management*, 7-2
 - parameters, *System Management*, 7-2
 - Memory display, *System Management*, 7-1
 - monitoring pool, *System Management*, 8-1
 - pages, *System Management*, 7-1
 - running
 - nonprivileged users, *System Management*, 7-2
 - on a slaved terminal, *System Management*, 7-2, 7-3
 - setup page, *System Management*, 7-2
 - description, *System Management*, 1-13
 - specifying setup commands, *System Management*, 7-2
 - System Statistics display, *System Management*, 7-1
 - task-build command file
 - modifying, *System Management*, 7-24
 - Task Header display, *System Management*, 7-1
 - type of displays available, *System Management*, 1-13
 - uninstalled copy
 - invoking, *System Management*, 7-3
- RMD.TSK task image file
 - location, *System Management*, 7-3
- RMDBLD.CMD file
 - modifying, *System Management*, 7-24
- RMS-11
 - installing libraries and utilities, *System Generation*, 4-5
 - pregenerated kit, *System Generation*, 5-43
 - processing string, *Executive*, 5-163
- RMS-11 object library, *Program Development*, 1-10
- RMS-11 defaults, *RMS-11 User's Guide*, 2-2
- RMS-11 File Back-Up Utility
 - See RMSBCK
- RMS-11 File Conversion Utility
 - See RMSCNV
- RMS-11 File Design Utility
 - See RMSDES
- RMS-11 File Display Utility
 - See RMSDSP
- RMS-11 File Restoration Utility
 - See RMSRST
- RMS-11 Indexed File Load Utility
 - See RMSIFL
- RMS-11 resident library
 - See RMSRES
- RMSBCK, *RMS-11 User's Guide*, 1-12; *RMS-11 Utilities*, 1-1, 3-3, 4-5, 5-1, 6-1, 7-1, 7-9 to 7-10
 - backup file contents, *RMS-11 Utilities*, 6-1
 - backup medium, *RMS-11 Utilities*, 6-3
 - /CD switch, *RMS-11 Utilities*, 6-8 to 6-9
 - command string, *RMS-11 Utilities*, 6-2 to 6-3
 - container file, *RMS-11 Utilities*, 6-1
 - data integrity checking, *RMS-11 Utilities*, 6-6 to 6-7, 6-9
 - examples, *RMS-11 Utilities*, 6-10
 - HELP, *RMS-11 Utilities*, 6-4
 - indirect command file, *RMS-11 Utilities*, 6-2
 - input file switches, *RMS-11 Utilities*, 6-8
 - intersystem file transfer, *RMS-11 Utilities*, 1-2
 - invoking, *RMS-11 Utilities*, 6-2
 - magnetic tape, *RMS-11 Utilities*, 6-7
 - multivolume, *RMS-11 Utilities*, 6-9
 - messages, *RMS-11 Utilities*, C-1
 - /[NO]QU switch, *RMS-11 Utilities*, 6-5 to 6-7, 6-10
 - output file switches, *RMS-11 Utilities*, 6-6
 - processing, *RMS-11 Utilities*, 6-8
 - data integrity checking, *RMS-11 Utilities*, 6-9
 - explicit/implicit file specification, *RMS-11 Utilities*, 6-9
 - extended diagnostic messages, *RMS-11 Utilities*, 6-10
 - summary listing, *RMS-11 Utilities*, 6-10
 - prompt, *RMS-11 Utilities*, 6-2
 - query mode, *RMS-11 Utilities*, 6-5 to 6-7, 6-10
 - /RA switch, *RMS-11 Utilities*, 6-6 to 6-7, 6-9
 - /RC switch, *RMS-11 Utilities*, 6-7, 6-9
 - /RD switch, *RMS-11 Utilities*, 6-8 to 6-9
 - /RW switch, *RMS-11 Utilities*, 6-7
 - /SL switch, *RMS-11 Utilities*, 6-6, 6-10
 - /SU switch, *RMS-11 Utilities*, 6-7

RMSBCK (cont'd.)

- terminating, *RMS-11 Utilities*, 6-2
- RMSCNV, *RMS-11 User's Guide*, 1-12;
RMS-11 Utilities, 1-1, 3-1, 4-1
 - /AP switch, *RMS-11 Utilities*, 4-5, 4-7, 4-13, 4-15
- ASCII stream files, *RMS-11 Utilities*, 4-3, 4-8
- block mode, *RMS-11 Utilities*, 4-1
 - /BL switch, *RMS-11 Utilities*, 4-8
 - /CA switch, *RMS-11 Utilities*, 4-8
- command string, *RMS-11 Utilities*, 4-3 to 4-4
- CTRL/Z
 - file terminator, *RMS-11 Utilities*, 4-8
- /EO switch, *RMS-11 Utilities*, 4-8
- examples, *RMS-11 Utilities*, 4-16
 - /FO switch, *RMS-11 Utilities*, 4-9, 4-15
- HELP, *RMS-11 Utilities*, 4-5
 - /ID switch, *RMS-11 Utilities*, 4-5, 4-9
 - /IM switch, *RMS-11 Utilities*, 4-9
- indirect command file, *RMS-11 Utilities*, 4-4
- intersystem file transfer, *RMS-11 Utilities*, 1-2, 4-1
- invoking, *RMS-11 Utilities*, 4-3
- key name, *RMS-11 Utilities*, 4-10
- key of reference, *RMS-11 Utilities*, 4-10
 - /KN switch, *RMS-11 Utilities*, 4-10, 4-16
 - /KR switch, *RMS-11 Utilities*, 4-10, 4-16
 - /LO switch, *RMS-11 Utilities*, 4-10
- mass-insertion mode, *RMS-11 Utilities*, 4-10
 - /MA switch, *RMS-11 Utilities*, 4-10
- messages, *RMS-11 Utilities*, C-1
 - /ML switch, *RMS-11 Utilities*, 4-11
- network facilities, *RMS-11 Utilities*, 4-1
 - /PD switch, *RMS-11 Utilities*, 4-12
- populating files, *RMS-11 User's Guide*, 6-26 to 6-27
- processing, *RMS-11 Utilities*, 4-14
 - input file organization, *RMS-11 Utilities*, 4-16
 - output file organization, *RMS-11 Utilities*, 4-15
- prompt, *RMS-11 Utilities*, 4-3
 - /SL switch, *RMS-11 Utilities*, 4-12
- summary listing, *RMS-11 Utilities*, 4-12
- supersession, *RMS-11 Utilities*, 4-13
 - /SU switch, *RMS-11 Utilities*, 4-5, 4-7, 4-13, 4-15
- terminating, *RMS-11 Utilities*, 4-4

RMSCNV (cont'd.)

- /TR switch, *RMS-11 Utilities*, 4-13
- /WF switch, *RMS-11 Utilities*, 4-14
- RMSDEF, *RMS-11 Utilities*, 1-1, A-1
 - alignment, *RMS-11 Utilities*, A-14
 - allocation
 - data, *RMS-11 Utilities*, A-16
 - file, *RMS-11 Utilities*, A-14
 - area definition, *RMS-11 Utilities*, A-13
 - area numbers, *RMS-11 Utilities*, A-16
 - block boundaries, *RMS-11 Utilities*, A-9
 - bucket size, *RMS-11 Utilities*, A-15
 - carriage control, *RMS-11 Utilities*, A-9
 - command file, *RMS-11 Utilities*, A-5
 - command string, *RMS-11 Utilities*, A-5
 - contiguity, *RMS-11 Utilities*, A-15
 - default extension quantity, *RMS-11 Utilities*, A-15
 - file creation, *RMS-11 Utilities*, A-19
 - file organization, *RMS-11 Utilities*, A-8
 - file specification, *RMS-11 Utilities*, A-7
 - fill numbers, *RMS-11 Utilities*, A-16
 - fixed control area, *RMS-11 Utilities*, A-8
 - HELP, *RMS-11 Utilities*, A-5
 - /ID switch, *RMS-11 Utilities*, A-5
 - invoking, *RMS-11 Utilities*, A-5
 - location, *RMS-11 Utilities*, A-14
 - magnetic tape, *RMS-11 Utilities*, A-8, A-10
 - maximum record number, *RMS-11 Utilities*, A-9
 - maximum record size, *RMS-11 Utilities*, A-9
 - messages, *RMS-11 Utilities*, A-20
 - placement control, *RMS-11 Utilities*, A-14
 - primary key definition, *RMS-11 Utilities*, A-10
 - processing, *RMS-11 Utilities*, A-1
 - protection, *RMS-11 Utilities*, A-18
 - record format, *RMS-11 Utilities*, A-8
 - terminating, *RMS-11 Utilities*, A-5
- RMSDES, *RMS-11 User's Guide*, 1-12, 1-18
 - allocation areas, *RMS-11 Utilities*, 2-10, 2-25
 - areas
 - CREATE command, *RMS-11 Utilities*, 2-8
 - numbering, *RMS-11 Utilities*, 2-8, 2-28, 2-43
 - SET ALL command, *RMS-11 Utilities*, 2-14
 - attributes, *RMS-11 Utilities*, 2-29

RMSDES

attributes (cont'd.)

ALLOCATION

- area section, *RMS-11 Utilities*, 2-44
- file section, *RMS-11 Utilities*, 2-31
- BLOCK_SPAN, *RMS-11 Utilities*, 2-37
- BUCKET_SIZE
 - area section, *RMS-11 Utilities*, 2-43, 2-45
 - file section, *RMS-11 Utilities*, 2-32
- CARRIAGE_CONTROL, *RMS-11 Utilities*, 2-37
- CHANGES, *RMS-11 Utilities*, 2-40
- clearing, *RMS-11 Utilities*, 2-22, 2-25
 - individual values, *RMS-11 Utilities*, 2-26
 - sections, *RMS-11 Utilities*, 2-26
- CLUSTER_SIZE, *RMS-11 Utilities*, 2-31
- CONTIGUOUS
 - area section, *RMS-11 Utilities*, 2-46
 - file section, *RMS-11 Utilities*, 2-35
- CONTROL_FIELD_SIZE, *RMS-11 Utilities*, 2-37
- DATA_AREA, *RMS-11 Utilities*, 2-40
- DATA_FILL, *RMS-11 Utilities*, 2-40
- displaying, *RMS-11 Utilities*, 2-15, 2-26
 - individual values, *RMS-11 Utilities*, 2-26
 - displaying sections, *RMS-11 Utilities*, 2-27
- DUPLICATES, *RMS-11 Utilities*, 2-40, 2-42, 2-44
- EXACT_POSITIONING, *RMS-11 Utilities*, 2-47
- EXTENSION
 - area section, *RMS-11 Utilities*, 2-45
 - file section, *RMS-11 Utilities*, 2-32
- FILE_PLACEMENT, *RMS-11 Utilities*, 2-30
- FORMAT, *RMS-11 Utilities*, 2-36
- INDEX_AREA, *RMS-11 Utilities*, 2-41
- INDEX_FILL, *RMS-11 Utilities*, 2-41
- informational, *RMS-11 Utilities*, 2-1, 2-17, 2-29
- LEVEL1_INDEX_AREA, *RMS-11 Utilities*, 2-41
- MAGTAPE_BLOCK_SIZE, *RMS-11 Utilities*, 2-34
- MAX_RECORD_NUMBER, *RMS-11 Utilities*, 2-34

RMSDES

attributes (cont'd.)

NAME

- file section, *RMS-11 Utilities*, 2-31
- key section, *RMS-11 Utilities*, 2-38
- NULL_KEY, *RMS-11 Utilities*, 2-39
- NULL_VALUE, *RMS-11 Utilities*, 2-39
- ORGANIZATION, *RMS-11 Utilities*, 2-31
- OWNER, *RMS-11 Utilities*, 2-43
- POSITION, *RMS-11 Utilities*, 2-46
- PROTECTION, *RMS-11 Utilities*, 2-33
 - resetting, *RMS-11 Utilities*, 2-21
- REWIND_MAGTAPE, *RMS-11 Utilities*, 2-34
- RMS-11, *RMS-11 Utilities*, 2-1, 2-17, 2-29
- SEG0_POSITION, *RMS-11 Utilities*, 2-42
- SEGN_LENGTH, *RMS-11 Utilities*, 2-42
- SEGN_POSITION, *RMS-11 Utilities*, 2-42
- setting, *RMS-11 Utilities*, 2-13
 - from data file, *RMS-11 Utilities*, 2-25
 - from description file, *RMS-11 Utilities*, 2-24
 - individual values, *RMS-11 Utilities*, 2-21
 - sections, *RMS-11 Utilities*, 2-21
- SIZE, *RMS-11 Utilities*, 2-36
- SOURCE, *RMS-11 Utilities*, 2-30
- SUPERSEDE, *RMS-11 Utilities*, 2-35
- TARGET, *RMS-11 Utilities*, 2-30
- TYPE, *RMS-11 Utilities*, 2-38
- bucket fill size, *RMS-11 User's Guide*, 6-29
- bucket size, *RMS-11 User's Guide*, 6-22
 - relative files, *RMS-11 User's Guide*, 4-3
- CLEAR command, *RMS-11 Utilities*, 2-6, 2-18, 2-25 to 2-26
 - defining areas by default, *RMS-11 Utilities*, 2-44
 - in indirect command file, *RMS-11 Utilities*, 2-4
- PROTECTION attribute, *RMS-11 Utilities*, 2-33
 - with CREATE, *RMS-11 Utilities*, 2-8, 2-28
 - with SAVE, *RMS-11 Utilities*, 2-27
- clearing attributes, *RMS-11 Utilities*, 2-6
- commands, *RMS-11 Utilities*, 2-4

RMSDES (cont'd.)

- CREATE command, *RMS-11 Utilities*, 2-7, 2-18, 2-28, 2-31
- defining areas by default, *RMS-11 Utilities*, 2-44
- defining areas explicitly, *RMS-11 Utilities*, 2-43
- INDEX__AREA attribute, *RMS-11 Utilities*, 2-42
- key numbering, *RMS-11 Utilities*, 2-38
- LEVEL1__INDEX__AREA attribute, *RMS-11 Utilities*, 2-41
- setting attributes, *RMS-11 Utilities*, 2-21
- with GET, *RMS-11 Utilities*, 2-10, 2-25
- creating data files, *RMS-11 Utilities*, 2-28
- CTRL/Z command, *RMS-11 Utilities*, 2-2, 2-9, 2-18
- data file, *RMS-11 Utilities*, 2-3, 2-17, 2-24
 - creating, *RMS-11 Utilities*, 2-3, 2-7, 2-28
- GET command, *RMS-11 Utilities*, 2-10
- defaults, *RMS-11 Utilities*, 2-21
- defining areas, *RMS-11 Utilities*, 2-1, 2-42, B-1
 - and BUCKET_SIZE attribute, *RMS-11 Utilities*, 2-32
 - and DATA__AREA attribute, *RMS-11 Utilities*, 2-40
 - and LEVEL1__INDEX__AREA attribute, *RMS-11 Utilities*, 2-41
 - and SIZE attribute, *RMS-11 Utilities*, 2-36
- defining areas by default, *RMS-11 Utilities*, 2-17, 2-38, 2-43
 - CREATE command, *RMS-11 Utilities*, 2-28
- defining areas explicitly, *RMS-11 Utilities*, 2-17, 2-43
- DEQ, *RMS-11 User's Guide*, 3-5, 4-4, 6-26
- description file, *RMS-11 Utilities*, 2-3, 2-17, 2-24
 - EXIT command, *RMS-11 Utilities*, 2-10
 - GET command, *RMS-11 Utilities*, 2-10
 - SAVE command, *RMS-11 Utilities*, 2-27
- design buffer, *RMS-11 Utilities*, 2-1
 - using, *RMS-11 Utilities*, 2-16
- design session, *RMS-11 Utilities*, 2-1
 - resuming, *RMS-11 Utilities*, 2-22
- ESC command, *RMS-11 Utilities*, 2-9, 2-21
- examples, *RMS-11 Utilities*, 2-47

RMSDES (cont'd.)

- EXIT command, *RMS-11 Utilities*, 2-3, 2-9, 2-17, 2-18
- GET command, *RMS-11 Utilities*, 2-10, 2-17, 2-24
 - PROTECTION attribute, *RMS-11 Utilities*, 2-33
 - with SAVE, *RMS-11 Utilities*, 2-28
- HELP command, *RMS-11 Utilities*, 2-11
- indirect command file, *RMS-11 Utilities*, 2-3
 - comments, *RMS-11 Utilities*, 2-4
- initial allocation, *RMS-11 User's Guide*, 3-4, 4-4, 6-26
- invoking, *RMS-11 Utilities*, 2-2
- keys
 - numbering, *RMS-11 Utilities*, 2-8, 2-28, 2-38
- key segments, *RMS-11 User's Guide*, 6-7
- magnetic tape, *RMS-11 Utilities*, 2-34
- messages, *RMS-11 Utilities*, 2-52
- MRN, *RMS-11 User's Guide*, 4-5
- multiple areas, *RMS-11 Utilities*, 2-7, 2-43
- multiple keys, *RMS-11 Utilities*, 2-7, 2-38
- placement control, *RMS-11 User's Guide*, 6-14
- prompt, *RMS-11 Utilities*, 2-2
 - conditional, *RMS-11 Utilities*, 2-14 to 2-15, 2-21
- prompting
 - conditional, *RMS-11 Utilities*, 2-1, 2-13, 2-15, 2-17, 2-29
- QUIT command, *RMS-11 Utilities*, 2-2, 2-12, 2-18
- SAVE command, *RMS-11 Utilities*, 2-13, 2-18, 2-27
 - setting attributes, *RMS-11 Utilities*, 2-21
- saving the design, *RMS-11 Utilities*, 2-13, 2-22, 2-27
- sections
 - area section, *RMS-11 Utilities*, 2-29, 2-42
 - design buffer, *RMS-11 Utilities*, 2-1, 2-16, 2-29
 - file section, *RMS-11 Utilities*, 2-29, 2-31
 - key section, *RMS-11 Utilities*, 2-29, 2-38
 - key segments, *RMS-11 Utilities*, 2-41
 - record section, *RMS-11 Utilities*, 2-29, 2-36

RMSDES

sections (cont'd.)

- system section, *RMS-11 Utilities*, 2-29 to 2-30
 - SET command, *RMS-11 Utilities*, 2-13, 2-17, 2-20, 2-33
 - allocation, *RMS-11 Utilities*, 2-10
 - defining areas by default, *RMS-11 Utilities*, 2-17, 2-43
 - defining areas explicitly, *RMS-11 Utilities*, 2-43
 - INDEX_AREA attribute, *RMS-11 Utilities*, 2-41
 - LEVEL1_INDEX_AREA attribute, *RMS-11 Utilities*, 2-41
 - PROTECTION attribute, *RMS-11 Utilities*, 2-33
 - with GET, *RMS-11 Utilities*, 2-25
 - SHOW ALL command, *RMS-11 Utilities*, 2-4
 - defining areas by default, *RMS-11 Utilities*, 2-17
 - defining areas explicitly, *RMS-11 Utilities*, 2-43
 - setting attributes, *RMS-11 Utilities*, 2-21
 - SHOW command, *RMS-11 Utilities*, 2-15, 2-18, 2-26
 - allocation, *RMS-11 Utilities*, 2-10
 - PROTECTION attribute, *RMS-11 Utilities*, 2-33
 - with GET, *RMS-11 Utilities*, 2-25
 - SHOW ID command, *RMS-11 Utilities*, 2-16
 - terminating, *RMS-11 Utilities*, 2-2, 2-9, 2-12
 - version, *RMS-11 Utilities*, 2-16
- RMSDSP, *RMS-11 User's Guide*, 1-12, 1-19; *RMS-11 Utilities*, 1-1, 5-1, 6-3, 7-10
- ANSI-standard tape, *RMS-11 Utilities*, 5-3
 - /BP switch, *RMS-11 Utilities*, 5-3 to 5-4
 - command string, *RMS-11 Utilities*, 5-2 to 5-3
 - container file, *RMS-11 Utilities*, 5-1, 5-3 to 5-4
 - detailed display, *RMS-11 Utilities*, 5-4
 - display, *RMS-11 Utilities*, 5-5
 - information, *RMS-11 Utilities*, 5-1
 - /FU switch, *RMS-11 Utilities*, 5-2, 5-5
 - HELP, *RMS-11 Utilities*, 5-3
 - /ID switch, *RMS-11 Utilities*, 5-3, 5-5

RMSDSP (cont'd.)

- indirect command file, *RMS-11 Utilities*, 5-2
 - intersystem file transfer, *RMS-11 Utilities*, 1-2
 - invoking, *RMS-11 Utilities*, 5-2
 - magtape allocation information, *RMS-11 Utilities*, 5-2
 - messages, *RMS-11 Utilities*, C-1
 - mounting tapes, *RMS-11 Utilities*, 5-3
 - prompt, *RMS-11 Utilities*, 5-2
 - switches, *RMS-11 Utilities*, 5-3 to 5-4
 - terminating, *RMS-11 Utilities*, 5-2
- RMSIFL, *RMS-11 User's Guide*, 1-12; *RMS-11 Utilities*, 1-1, 3-1, 4-1 to 4-2
- building alternate indexes, *RMS-11 Utilities*, 3-12
 - calculating file work space, *RMS-11 Utilities*, 3-12
 - command string, *RMS-11 Utilities*, 3-2 to 3-3
 - /DE switch, *RMS-11 Utilities*, 3-7, 3-10, 3-14
 - /ER switch, *RMS-11 Utilities*, 3-5 to 3-6
 - examples, *RMS-11 Utilities*, 3-14
 - global switch, *RMS-11 Utilities*, 3-5
 - HELP, *RMS-11 Utilities*, 3-3
 - /ID switch, *RMS-11 Utilities*, 3-3, 3-5
 - indirect command file, *RMS-11 Utilities*, 3-2
 - input file switches, *RMS-11 Utilities*, 3-7
 - invoking, *RMS-11 Utilities*, 3-2
 - /KR switch, *RMS-11 Utilities*, 3-8 to 3-9
 - /LO switch, *RMS-11 Utilities*, 3-6
 - messages, *RMS-11 Utilities*, C-1
 - /NOER switch, *RMS-11 Utilities*, 3-6
 - /NOSO switch, *RMS-11 Utilities*, 3-8 to 3-10
 - output file switches, *RMS-11 Utilities*, 3-5
 - /PD switch, *RMS-11 Utilities*, 3-6 to 3-7, 3-11
 - populating files, *RMS-11 User's Guide*, 6-26 to 6-27
 - processing, *RMS-11 Utilities*, 3-9
 - command string checking, *RMS-11 Utilities*, 3-9
 - loading output file, *RMS-11 Utilities*, 3-10
 - reading and sorting input, *RMS-11 Utilities*, 3-9
 - sorting alternate key files, *RMS-11 Utilities*, 3-11

RMSIFL

processing (cont'd.)

summary, *RMS-11 Utilities*, 3-1

prompt, *RMS-11 Utilities*, 3-2

sort error codes, *RMS-11 Utilities*, D-1

sort work files, *RMS-11 Utilities*, 3-1, 3-7,
3-12 to 3-13

switches, *RMS-11 Utilities*, 3-3, 3-5

terminating, *RMS-11 Utilities*, 3-2

terminating processing, *RMS-11 Utilities*,
3-12

/TR switch, *RMS-11 Utilities*, 3-7, 3-11

RMSLIB.OLB (Record Management Services
library), *Program Development*, 1-11

RMSMAC.MLB, *RMS-11 Macro*, 2-22

RMSMAC.MLB (PDP-11 Record Management
Services Library), *Program Development*,
1-10

RMSRES

and I/O paging operations, *RMS-11 User's
Guide*, 8-10

clustered, *RMS-11 User's Guide*, 8-7

overlays, *RMS-11 User's Guide*, 8-6, 8-9

supervisor mode, *RMS-11 User's Guide*, 8-7

task building, *RMS-11 User's Guide*, 8-6

RMSRST, *RMS-11 User's Guide*, 1-12;

RMS-11 Utilities, 1-1, 4-2, 5-4, 6-1,
6-3, 6-8, 7-1

/BD switch, *RMS-11 Utilities*, 7-8, 7-10

command string, *RMS-11 Utilities*, 7-2 to
7-3

data integrity checking, *RMS-11 Utilities*,
7-6, 7-8, 7-11

examples, *RMS-11 Utilities*, 7-12

/FR switch, *RMS-11 Utilities*, 7-7

HELP, *RMS-11 Utilities*, 7-3

/ID switch, *RMS-11 Utilities*, 7-3

indirect command file, *RMS-11 Utilities*,
7-2

input file switches, *RMS-11 Utilities*, 7-8

interstate file transfer, *RMS-11 Utilities*,
1-2, 7-1, 7-10

invoking, *RMS-11 Utilities*, 7-2

messages, *RMS-11 Utilities*, C-1

/[NO]CV switch, *RMS-11 Utilities*, 7-10

/[NO]QU switch, *RMS-11 Utilities*, 7-6 to
7-8, 7-12

/OA switch, *RMS-11 Utilities*, 7-9 to 7-10

output file switches, *RMS-11 Utilities*, 7-7
processing

data integrity checking, *RMS-11
Utilities*, 7-11

RMSRST

processing (cont'd.)

explicit/implicit file specification,
RMS-11 Utilities, 7-10

extended diagnostic messages, *RMS-11
Utilities*, 7-11

restoration account, *RMS-11 Utilities*,
7-10

summary listing, *RMS-11 Utilities*, 7-12

prompt, *RMS-11 Utilities*, 7-2

query mode, *RMS-11 Utilities*, 7-6 to 7-8,
7-11

/RA switch, *RMS-11 Utilities*, 7-7, 7-11

/RC switch, *RMS-11 Utilities*, 7-8, 7-11

/SE switch, *RMS-11 Utilities*, 7-3, 7-9

/SL switch, *RMS-11 Utilities*, 7-6, 7-12

summary listing, *RMS-11 Utilities*, 7-12

/SU switch, *RMS-11 Utilities*, 7-8

terminating, *RMS-11 Utilities*, 7-2

\$RMSTAT macro, *RMS-11 Macro*, C-3

/RM switch

PIP utility, *Utilities*, 12-27

RMVBUF: subroutine

removing buffer from device queue

K-series, *I/O Drivers*, 13-24

LADRV, *I/O Drivers*, 12-19

/RNDC keyword

SET command, MCR, 3-182

SET command (VMR), *System Management*,
5-64

/RNDH keyword

SET command, MCR, 3-182

SET command (VMR), *System Management*,
5-65

/RNDL keyword

SET command, MCR, 3-182

SET command (VMR), *System Management*,
5-65

RNDSEG option, *Task Builder*, 5-16, 12-33

RO argument

for .PSECT, *MACRO-11*, 5-34

/RON keyword

FIX command (VMR), *System Management*,
5-19

FIX-IN-MEMORY command, MCR, 3-63

INS command (VMR), *System Management*,
5-24

INSTALL command, MCR, 3-98

UNF command (VMR), *System Management*,
5-80

UNFIX command, MCR, 3-211

- \$RONLY macro
 - state table, *I/O Operations*, 7-2
- Root, *RMS-11 User's Guide*, 1-7
 - co-tree, *Task Builder*, 3-33
 - indexed files, *RMS-11 User's Guide*, 5-5
 - null, *Task Builder*, 3-33
- .ROOT directive, *Task Builder*, 3-26
 - arguments, *Task Builder*, 3-28
 - creating statement, *Task Builder*, 3-40
- Root module
 - error logging, *Error Logging*, 4-4
- /ROPAR keyword
 - INS command (VMR), *System Management*, 5-24
 - INSTALL command, MCR, 3-98
 - RUN command, MCR, 3-144
- ROPAR option, *Task Builder*, 12-34
- ^R operator, *MACRO-11*, 5-23
- /RO switch, *Task Builder*, 10-37
 - ZAP utility, *Utilities*, 15-2, 15-5
- Round-robin scheduler, *System Management*, 1-6
 - function, *System Management*, 1-6
 - setting priority range, *System Management*, 1-6
 - time interval, *System Management*, 1-6
- Routine
 - completion, *Task Builder*, 8-2
 - specifying, *Task Builder*, 12-11
 - user-written, *Task Builder*, 8-25
 - overlay run-time, *Task Builder*, 3-21, 4-15
 - comparing, *Task Builder*, 4-17
- RP02 disk, *I/O Drivers*, 4-3
- RP03 disk, *I/O Drivers*, 4-3
- RP04 disk, *I/O Drivers*, 4-3
- RP05 disk, *I/O Drivers*, 4-3
- RP06 disk, *I/O Drivers*, 4-3
- RP11/RP02 or RP03 disk packs, *I/O Drivers*, 4-3
- RP11 disk controller, *I/O Drivers*, 4-3
- /RPA keyword
 - SET command, MCR, 3-182
 - SET command (VMR), *System Management*, 5-65
- RPOI\$ directive, *Executive*, 5-192
 - comparison to SPWN\$ directive, *System Management*, 18-6
- /RPRI keyword
 - ALTER command, MCR, 3-12
- /RP switch
 - LBR utility, *Program Development*, 6-9, 6-10; *Utilities*, 10-24
- RPT, *Error Logging*, 1-3, 1-4, 2-3
 - See also ANALYZE/ERROR_LOG command
 - command line
 - DCL, *Error Logging*, 3-2, 3-3
 - defaults, *Error Logging*, 3-2
 - information required, *Error Logging*, 3-2
 - input file, *Error Logging*, 3-3
 - MCR, *Error Logging*, 3-1, 3-2
 - MCR and DCL equivalents, *Error Logging*, 3-1
 - parsing module, *Error Logging*, 4-4
 - report file, *Error Logging*, 3-3
 - universal library, *Error Logging*, 3-2
 - using multiple arguments, *Error Logging*, 3-5, 3-9, 3-10, 3-11, 3-12, 3-21
 - context information, *Error Logging*, 1-5
 - control file modules, *Error Logging*, 1-3
 - data types, *Error Logging*, 5-26
 - default file specification, *Error Logging*, 3-2, 3-4
 - device-supplied information, *Error Logging*, 1-5
 - error log packet, *Error Logging*, 3-1
 - error messages, *Error Logging*, 3-27 to 3-49
 - format selection, *Error Logging*, 3-2, 3-4, 3-13
 - installing, *Error Logging*, 2-1, 3-2
 - interpreter, *Error Logging*, 5-1
 - packet selection, *Error Logging*, 3-2, 3-4
 - report formats, *Error Logging*, 1-4
 - report types, *Error Logging*, 1-4
 - summary selection, *Error Logging*, 3-2, 3-4
 - switches
 - defined report, *Error Logging*, 3-23
 - packet selection, *Error Logging*, 3-8, 3-11
 - report format, *Error Logging*, 3-13
 - summary report, *Error Logging*, 3-21, 3-23
 - table of, *Error Logging*, 3-6 to 3-8
 - width, *Error Logging*, 3-27
- %RPT\$COMMAND
 - CFL report control function, *Error Logging*, 5-22
- %RPT\$IDENT
 - CFL report control function, *Error Logging*, 5-22

%RPT\$LINE_REMAINING
 CFL report control function, *Error Logging*, 5-22
 %RPT\$LINE_SKIP
 CFL report control function, *Error Logging*, 5-22
 %RPT\$PAGE_CURRENT
 CFL report control function, *Error Logging*, 5-22
 %RPT\$PAGE_DEFAULT
 CFL report control function, *Error Logging*, 5-22
 %RPT\$PAGE_REMAINING
 CFL report control function, *Error Logging*, 5-22
 %RPT\$PAGE_SIZE
 CFL report control function, *Error Logging*, 5-22
 %RPT\$STATUS
 CFL report control function, *Error Logging*, 5-23
 RPTBLD.BLD file, *Error Logging*, 3-3
 RPT report format
 See also /FORMAT switch
 brief, *Error Logging*, 1-4, 3-13 to 3-16
 processing, *Error Logging*, 4-10, 4-17
 full, *Error Logging*, 3-13, 3-16 to 3-19
 processing, *Error Logging*, 4-10, 4-17
 no report, *Error Logging*, 3-19
 register, *Error Logging*, 3-13, 3-19
 RPT summary report
 ERROR, *Error Logging*, 3-21, 4-6
 GEOMETRY, *Error Logging*, 3-23, 4-7
 HISTORY, *Error Logging*, 3-23, 4-7
 processing, *Error Logging*, 4-6, 4-10, 4-17
 \$RQCB (Request core blocks), *System Library*, 7-3
 \$RQCB system routine, *RMS-11 Macro*, 2-22
 \$RQCNC, *Writing I/O Driver*, 4-38
 \$RQCND, *Writing I/O Driver*, 4-38
 RQST\$ directive, *Executive*, 5-195
 effect on default TI, MCR, 2-10
 running an installed task, MCR, 2-21
 \$RQVCB (Request virtual core block), *System Library*, 8-29
 RREF\$ directive, *Executive*, 5-198
 R register, *Debugging*, 2-6, 5-4, 5-5; XDT, 2-12
 clearing, *Debugging*, 5-6; XDT, 2-14
 setting, *Debugging*, 2-9, 5-6; XDT, 2-14
 RRN, *RMS-11 Intro*, 3-12, 3-12 to 3-15
 relative files, *RMS-11 User's Guide*, 4-1

RRN (cont'd.)
 sequential files, *RMS-11 User's Guide*, 3-2
 RRS\$ directive, *Executive*, 5-201
 RRV, *RMS-11 User's Guide*, 5-12, 5-16
 RS03 disk, *I/O Drivers*, 4-3
 RS04 fixed-head disk, *I/O Drivers*, 4-3
 RS11 disk, *I/O Drivers*, 4-2
 RSEF\$ directive, *I/O Drivers*, 1-7
 /RSI keyword
 RUN command, MCR, 3-140
 RUN command (VMR), *System Management*, 5-41
 /RS keyword
 MOUNT command, MCR, 3-122
 /RS switch
 FLX utility, *Utilities*, 8-4
 SLP utility, *Utilities*, 13-16
 RSTS/E RMS-11
 contrasted with PRO/RMS-11, RMS-11
 Macro, D-1
 contrasted with RSX-11 RMS-11, RMS-11
 Macro, D-3
 remote access, *RMS-11 User's Guide*, B-3
 RSTS operating procedure, *MACRO-11*, 8-1
 RSUM\$ directive, *Executive*, 5-204
 RSX11.SYS file
 See Account file
 <RSX11D> symbol, *Indirect*, 2-11
 RSX-11M
 default file specifications, *MACRO-11*, 7-3
 file specification, *MACRO-11*, 7-16
 file specification switches, *MACRO-11*, 7-6
 operating procedures, *MACRO-11*, 7-1
 system error messages, *MACRO-11*, 7-16
 under RSTS, *MACRO-11*, 8-1
 RSX11M.SYS file
 See System image file
 RSX-11M/M-PLUS RMS-11
 contrasted with PRO/RMS-11, RMS-11
 Macro, D-3
 contrasted with RSTS/E RMS-11, RMS-11
 Macro, D-3
 remote access, *RMS-11 User's Guide*, B-3
 RSX-11M-PLUS and VMS, *DCL*, 1-24
 RSX_TIME data type
 CFL, *Error Logging*, 5-8
 RSXASM.CMD file, *Writing I/O Driver*, 5-4
 RSXMAC.SML, *Executive*, 1-4; *Program Development*, 1-10, 2-6
 RT02 Alphanumeric Display Terminal, *I/O Drivers*, 2-7

RT-11

- CSI command line format, *MACRO-11*, 8-2
- CSI command line options, *MACRO-11*, 8-4
- DCL command line format, *MACRO-11*, 8-5
- default file specifications, *MACRO-11*, 8-2
- device support, *Utilities*, 8-2
- file transferring, *Utilities*, 8-4
- operating procedures, *MACRO-11*, 8-2
- system error messages, *MACRO-11*, 8-8
- under RSTS, *MACRO-11*, 8-1
- volume
 - deleting, *Utilities*, 8-11
 - directory listing, *Utilities*, 8-11
 - initializing, *Utilities*, 8-12
- RT-11 format
 - accessing volume, *MCR*, 2-1
- /RT switch
 - FLX utility, *Utilities*, 8-4
- Rubout character
 - cannot follow single or double quotation mark, *MACRO-11*, 5-19
- LPDRV, *I/O Drivers*, 7-6
- TTDRV
 - CRT, *I/O Drivers*, 2-21
- RUBOUT key
 - TTDRV, *I/O Drivers*, 2-73
- RUN\$ directive, *Executive*, 5-207
 - See also Run Task directive
 - CANCEL command, *MCR*, 3-38
 - CLOCK QUEUE command, *MCR*, 3-46
 - effect on task protection UIC, *System Management*, 5-25
 - running an installed task, *MCR*, 2-21
 - task activation, *MCR*, 2-10
- RUN command, *MCR*, 3-138; *Program Development*, 4-7, 5-2, 7-6; *DCL*, 7-6 to 7-16, 9-31 to 9-32; *Introduction*, 3-10, 5-8, 5-12
 - brief description, *MCR*, 1-6
 - examples, *MCR*, 3-145
 - formats, *MCR*, 3-138
 - installed task, *DCL*, 7-12 to 7-15
 - installing task, *MCR*, 2-21
 - keywords
 - /CKP, *MCR*, 3-143
 - /CMD, *MCR*, 3-143
 - /EST, *MCR*, 3-139, 3-143
 - /INC, *MCR*, 3-143
 - /IOP, *MCR*, 3-143
 - /PAR, *MCR*, 3-144

RUN command

- keywords (cont'd.)
 - /PMD, *MCR*, 3-144
 - /PRI, *MCR*, 3-144
 - /ROPAR, *MCR*, 3-144
 - /RSI, *MCR*, 3-140
 - /SLV, *MCR*, 3-144
 - /TASK, *MCR*, 3-144
 - /TIME, *MCR*, 3-145
 - /UIC, *MCR*, 3-139, 3-140, 3-145
 - options
 - absolute time, *MCR*, 3-138
 - immediate, *MCR*, 3-138
 - install-run-remove, *MCR*, 2-19, 3-107, 3-138
 - synchronized, *MCR*, 3-138
 - time increment, *MCR*, 3-138
 - prototype task, *MCR*, 3-138
 - redirecting TI (terminal input/output device), *MCR*, 2-10
 - setting ticks, *MCR*, 3-140
 - /TASK_NAME qualifier, *Introduction*, 5-13
 - uninstalled task, *DCL*, 7-8 to 7-12
 - VMR, *System Management*, 5-40
 - definition, *System Management*, 5-40
 - formats, *System Management*, 5-40 to 5-43
 - keywords
 - /RSI, *System Management*, 5-41
 - /UIC, *System Management*, 5-42
 - parameters, *System Management*, 5-40
 - restriction, *System Management*, 5-40
 - time options, *System Management*, 5-40
- Run Task directive, *Executive*, 5-206
- See also RUN\$ directive
 - CANCEL command, *MCR*, 3-38
 - CLOCK QUEUE command, *MCR*, 3-46
 - COMMAND LINE INTERPRETER
 - command, *MCR*, 3-44
 - effect on task protection UIC, *MCR*, 3-99
 - running an installed task, *MCR*, 2-21
 - task activation, *MCR*, 2-10
- ## RUNTIME command
- IOX, *System Management*, 12-50
 - Command mode, *System Management*, 12-50
 - initial default, *System Management*, 12-50
 - Interactive mode
 - restriction, *System Management*, 12-10

- Run-time initialization
 - FSR FINIT\$ macro, *I/O Operations*, 2-37
- RUX50 UNIBUS interface, *I/O Drivers*, 4-5
- RW argument
 - for .PSECT, *MACRO-11*, 5-34
- /RW switch
 - DMP utility, *Utilities*, 5-7
 - DSC utility, *Utilities*, 6-15
 - FLX utility, *Utilities*, 8-8
 - PIP utility, *Utilities*, 12-28
 - RMSBCK utility, *RMS-11 Utilities*, 6-7
- RX01 disk, *I/O Drivers*, 4-4
- RX02 device-level module, *Error Logging*, 4-8
- RX02 disk, *I/O Drivers*, 4-4
- RX11 disk controller, *I/O Drivers*, 4-4
- RX180 disk drive, *I/O Drivers*, 4-5
- RX211 disk controller, *I/O Drivers*, 4-4
- RX33 disk, *I/O Drivers*, 4-5
- RX50 disk, *I/O Drivers*, 4-5

S

- S.HDHD offset
 - header area size, *I/O Operations*, C-2
- S.IDHD offset
 - identification area size, *I/O Operations*, C-2
- S.MPHD offset
 - map area size, *I/O Operations*, C-3
- S.ST3, *Writing I/O Driver*, 4-37
- S.STS, *Writing I/O Driver*, 4-37
- SAB, *System Management*, 10-32
 - description, *System Management*, 10-23
 - Resource Accounting, *System Management*, 10-23
- \$SAHDB, *Writing I/O Driver*, 6-9, 6-10
 - contains an unknown value, *Writing I/O Driver*, 6-7
- \$SAHPT, *Writing I/O Driver*, 6-9
 - pointer to first word of task header, *Writing I/O Driver*, 6-7
- Sample configuration
 - increasing system throughput, *System Management*, 4-23
- Saturation
 - definition, *System Management*, 16-12
- \$SAVAL (Save all Registers), *System Library*, 2-2
- SAV argument
 - for .PSECT, *MACRO-11*, 5-36
- SAV command
 - See also SAVE command

SAV command

VMR

- definition, *System Management*, 5-44
- example, *System Management*, 5-45
- format, *System Management*, 5-44
- keywords
 - /BOOT, *System Management*, 5-45
 - /DENS, *System Management*, 5-45
- notes, *System Management*, 5-45
- parameters, *System Management*, 5-44

- SAVE command, *MCR*, 3-147; *System Management*, 8-18
 - brief description, *MCR*, 1-7
 - examples, *MCR*, 3-150
 - format, *MCR*, 3-149
 - keywords
 - /CSR, *MCR*, 3-149
 - /MOU, *MCR*, 3-149
 - /SFILE, *MCR*, 3-149
 - /WB, *MCR*, 3-149
 - /MOU keyword, *System Management*, 1-9
- RMSDES utility, *RMS-11 Utilities*, 2-1, 2-29
 - area section, *RMS-11 Utilities*, 2-29, 2-42
 - file section, *RMS-11 Utilities*, 2-29, 2-31
 - key section, *RMS-11 Utilities*, 2-29, 2-38
 - key segments, *RMS-11 Utilities*, 2-41
 - record section, *RMS-11 Utilities*, 2-29, 2-36
 - system section, *RMS-11 Utilities*, 2-29 to 2-30

VMR

- See SAV command

Save command

- EDI editor, *Utilities*, 7-36

Saved answer file

- comment line, *System Generation*, 3-5
- content, *System Generation*, 3-5
- default names, *System Generation*, 3-5
- definition, *System Generation*, 1-12
- description, *System Generation*, 3-5
- incomplete, *System Generation*, 3-6
- SYSGEN question, *System Generation*, 3-17

.SAVE directive, *MACRO-11*, 5-40

- maximum number, *MACRO-11*, 5-40
- summary, *MACRO-11*, 5-3

Saved system

- backing up, *System Generation*, 4-4
- definition, *System Generation*, 1-12

- /SAVE qualifier, *Task Builder*, 11-55
- .SAVR1 (Save Registers 1-5), *System Library*, 2-6
- \$SAVRG (Save Registers 3-5), *System Library*, 2-4
- \$SAVSP, *Writing I/O Driver*, 6-9
 - pointer to first word of task header, *Writing I/O Driver*, 6-7
- \$SAVVR (Save Registers 0-2), *System Library*, 2-5
- /SB switch, *Task Builder*, 10-38
 - DMP utility, *Utilities*, 5-7
 - PIP utility, *Utilities*, 12-29
- .SBTTL directive, *Program Development*, 2-6;
 - MACRO-11, 5-10
 - generates table of contents, MACRO-11, 5-10
 - summary, MACRO-11, 5-3
 - text appears in listing heading, MACRO-11, 5-3
- SC.MDL offset
 - bad data block
 - user-controlled file characteristic, *I/O Operations*, C-4
 - file marked for deletion
 - user-controlled file characteristic, *I/O Operations*, C-4
- SCAA\$ directive, *Executive*, 5-211
- SCAL\$S directive, *Executive*, 5-213
- SCAL library
 - converting to CSM library, *Task Builder*, 8-23
- Scan
 - definition, *System Management*, 10-15
- SCAN_RATE parameter
 - SET ACCOUNTING command, *System Management*, 10-9
 - START/ACCOUNTING command, *System Management*, 10-5
- Scan rate
 - Resource Accounting, *System Management*, 10-6
- /SCB, *Crash Dump Analyzer*, 2-4, 2-6
- SCB, *Writing I/O Driver*, 1-14, 2-3
 - adding KRB, *Writing I/O Driver*, A-2
 - address for KRB, *Writing I/O Driver*, 2-3
 - changes for converting a driver, *Writing I/O Driver*, A-2
 - combined with KRB, *Writing I/O Driver*, 4-48
 - layout, *Writing I/O Driver*, 4-48
- SCB (cont'd.)
 - composite arrangement, *Writing I/O Driver*, 2-15
 - contiguous with KRB, *Writing I/O Driver*, 2-7, 4-3
 - details, *Writing I/O Driver*, 4-34, 4-36, 4-40
 - format, *Writing I/O Driver*, 4-36, 4-40
 - KRB addresses for, *Writing I/O Driver*, 4-41
 - layout, *Writing I/O Driver*, 4-36
 - linking to fork blocks, *Writing I/O Driver*, 2-3
 - overview, *Writing I/O Driver*, 2-3
 - parallel operations, *Writing I/O Driver*, 2-3
 - pointer
 - to currently assigned KRB, *Writing I/O Driver*, 4-40
 - to head of queue for I/O requests, *Writing I/O Driver*, 2-3
 - validation during LOAD, *Writing I/O Driver*, 5-13
- SCBDF\$, *Crash Dump Analyzer*, C-69
- Scheduler
 - round-robin
 - function, *System Management*, 1-6
 - setting priority range, *System Management*, 1-6
 - time interval, *System Management*, 1-6
- SCLI\$ directive, *Executive*, 5-215
- COMMAND LINE INTERPRETER
 - command, MCR, 3-44
- S command, *Debugging*, 2-9, 3-4; XDT, 2-2, 2-14
- SCOPE: subroutine
 - control scope (K-series), *I/O Drivers*, 13-24
- Scratch disk
 - formatting, DCL, 5-11
- SDAT\$ directive, *Executive*, 5-217
 - summary, *I/O Operations*, F-3
- /SDI keyword
 - INITVOLUME command, MCR, 3-91
- SDIR\$ directive, *Executive*, 5-219
- SDRC\$ directive, *Executive*, 5-222
 - summary, *I/O Operations*, F-4
- SDRP\$ directive, *Executive*, 5-226
 - summary, *I/O Operations*, F-4
- /SD switch
 - PIP utility, *Utilities*, 12-29
- SE.BIN error return
 - TTDRV, *I/O Drivers*, 2-69

- SE.FIX error return
 - TTDRV, *I/O Drivers*, 2-69
- SE.IAA error return
 - TTDRV, *I/O Drivers*, 2-69
- SE.NAT error return
 - TTDRV, *I/O Drivers*, 2-69
- SE.NIH error return
 - TTDRV, *I/O Drivers*, 2-69
 - VTDRV, *I/O Drivers*, 3-9
- SE.NSC error return
 - TTDRV, *I/O Drivers*, 2-69
- SE.SPD error return
 - TTDRV, *I/O Drivers*, 2-69
- SE.UPN error return
 - TTDRV, *I/O Drivers*, 2-69
- SE.VAL error return
 - TTDRV, *I/O Drivers*, 2-69
- Search
 - argument register, *Debugging*, 2-6, 5-3, 6-2
 - byte, *Debugging*, 6-3
 - command, *Debugging*, 6-2
 - E, *Debugging*, 6-3
 - N, *Debugging*, 6-3
 - W, *Debugging*, 6-3
 - limit register, *Debugging*, 6-2
 - mask register, *Debugging*, 2-6, 5-3, 6-2
 - memory
 - command, *Debugging*, 2-7, 2-8
 - reference, *Debugging*, 6-3
 - word, *Debugging*, 6-3
- Search & Change command
 - EDI editor, *Utilities*, 7-37
- \$SEARCH macro, *RMS-11 Macro*, 5-116
 - example, *RMS-11 Macro*, 7-7, 7-15
- SEARCH operation, *RMS-11 User's Guide*, 1-17; *RMS-11 Intro*, 4-1
 - BDB requirement, *RMS-11 Macro*, 2-8
 - explicit, *RMS-11 Macro*, 3-12
 - I/O buffer requirement, *RMS-11 Macro*, 2-7
 - IFAB requirement, *RMS-11 Macro*, 2-5
 - remote access, *RMS-11 User's Guide*, B-1
 - \$SEARCH macro, *RMS-11 Macro*, 5-116
 - wildcard loop, *RMS-11 Macro*, 3-8, 3-10
- Search order of symbol tables, *MACRO-11*, 2-6
- SEARCH statement
 - CFL, *Error Logging*, 5-39
- Search time
 - indexed files, *RMS-11 User's Guide*, 5-8
- /SEC keyword
 - INS command (VMR), *System Management*, 5-24
 - INSTALL command, *MCR*, 3-98
- Secondary file
 - closing, *Indirect*, 2-48
 - opening, *Indirect*, 2-76
 - for appending, *Indirect*, 2-78
 - outputting data to, *Indirect*, 2-49
- Secondary index data record
 - See SIDR
- Secondary pool, *System Management*, 8-13
 - description, *System Management*, 8-13
 - displaying, *System Management*, 8-14
 - dump, *Crash Dump Analyzer*, 3-36
 - increasing availability, *System Management*, 8-17
 - increasing size, *System Management*, 8-16
- Resource Accounting, *System Management*, 8-18, 10-5
- saving, *System Management*, 8-18
- switch
 - See /SECPOL
- Secondary RBN, *System Management*, 13-6
- Secondary UNIBUS run, *Writing I/O Driver*, 1-18
- /SECPOL, *Crash Dump Analyzer*, 2-4, 2-7
- /SECPOL keyword
 - SET command, *MCR*, 3-183; *System Management*, 8-14
 - SET command (VMR), *System Management*, 5-65
- SECPOL partition
 - description, *System Management*, 7-7
- SECT function
 - EDT editor, *Introduction*, 2-7
- Section design buffer (RMSDES), *RSX-11 Utilities*, 2-16
- Sector, *RMS-11 Intro*, 2-1
 - See also Placement control
- Security information DELET\$ macro, *I/O Operations*, 3-38
- Seek-time
 - definition, *System Management*, 14-2
- SEG0_POSITION
 - RMSDES utility, *RMS-11 Utilities*, 2-42
- Segment, *Task Builder*, 3-1
 - descriptor, *Task Builder*, 3-22, B-21 to B-24
 - loading
 - automatically, *Task Builder*, 4-7
 - manually, *Task Builder*, 4-8

- Segment (cont'd.)
 - naming, *Task Builder*, 3-30
 - null
 - ODL, *Task Builder*, 3-33
 - overlay, *Task Builder*, 3-1, 3-2
 - root, *Task Builder*, 3-1
 - rounding address, *Task Builder*, 12-33
- Segmented key, *RMS-11 User's Guide*, 6-7; *RMS-11 Intro*, 3-10
- SEGN_LENGTH
 - RMSDES utility, *RMS-11 Utilities*, 2-42
- /SEGREGATE qualifier, *Task Builder*, 11-56
- SELECT command
 - IOX, *System Management*, 12-51
 - Command mode, *System Management*, 12-52
 - default parameters, *System Management*, 12-52
 - examples, *System Management*, 12-52
 - function, *System Management*, 12-5
 - Interactive mode, *System Management*, 12-52
 - logical names, *System Management*, 12-51
 - magnetic tape
 - example, *System Management*, 12-53
 - parameter commands for, *System Management*, 12-51
 - setting default parameters, *System Management*, 12-51, 12-58
 - specifying block range, *System Management*, 12-45
 - write-check, *System Management*, 12-62
- Select error function
 - tape driver, *I/O Drivers*, 6-13
- SELECT function
 - EDT editor, *Introduction*, 2-9
- /SELECTIVE_SEARCH qualifier, *Task Builder*, 11-57 to 11-58
- Select Primary command
 - EDI editor, *Utilities*, 7-37
- Select recovery function
 - tape driver, *I/O Drivers*, 6-13
- Select Secondary command
 - EDI editor, *Utilities*, 7-38
- SELECT statement, *Error Logging*, 4-35
 - CFL, *Error Logging*, 5-34
- SELTMT1 control file module, *Error Logging*, 4-4, 4-11, A-7
- Semicolon (;)
 - begins comment field, *MACRO-11*, 1-4
- Semicolon (;) (cont'd.)
 - in macro argument, *MACRO-11*, 6-7
 - special character in *MACRO-11*, *MACRO-11*, 2-2
 - use as character string delimiter, *MACRO-11*, 5-20
- Semicolon separator (;)
- Send, Request, and Connect directive, *Executive*, 5-222
- Send By Reference directive, *Executive*, 5-259
- Send Data directive, *Executive*, 5-217
- Send Data Request and Pass Offspring Control Block directive, *Executive*, 5-225
- Send Message directive, *Executive*, 5-231
- Send Next Command directive, *Executive*, 5-234
- Send XOFF function
 - TTDRV, *I/O Drivers*, 2-19, 2-32, 2-39, 2-44, 2-46
- Sense status
 - LRDRV, *I/O Drivers*, 11-5
- Separator
 - argument, *Debugging*, 2-4; *XDT*, 2-10
 - comma (,), *Debugging*, 2-4; *MACRO-11*, 2-3
 - Radix-50, *Debugging*, 2-4, 7-4; *XDT*, 2-10
 - space, *MACRO-11*, 2-3
 - table of, *MACRO-11*, 2-3
- SEQ argument
 - for .LIST/.NLIST, *MACRO-11*, 5-8
- SEQ argument to ORG\$ macro, *RMS-11 Macro*, 2-3
- Sequenced mode GET\$ operation, *I/O Operations*, 3-19
- /SEQUENCE qualifier
 - \$SUBMIT command, *Batch and Queue*, 3-24
- Sequential access, *RMS-11 User's Guide*, 1-7, 1-8; *RMS-11 Intro*, 2-4
 - block, *RMS-11 Intro*, 3-12
 - FIND, *RMS-11 User's Guide*, 1-16
 - GET, *RMS-11 User's Guide*, 1-16
 - PUT, *RMS-11 User's Guide*, 1-16
 - record, *RMS-11 User's Guide*, 1-12; *RMS-11 Intro*, 3-11
 - to blocks, *RMS-11 User's Guide*, 1-20
 - to indexed files, *RMS-11 User's Guide*, 5-16
 - to relative files, *RMS-11 User's Guide*, 4-1
 - to sequential files, *RMS-11 User's Guide*, 3-2
- Sequential file, *I/O Operations*, 2-10

- Sequential file organization, *RMS-11 Macro*, 2-3; *RMS-11 User's Guide*, 1-3, 1-11; *RMS-11 Intro*, 3-4
- access declarations, *RMS-11 User's Guide*, 3-6
- allocation
 - DEQ, *RMS-11 User's Guide*, 3-4
- and remote access, *RMS-11 User's Guide*, B-3
- cell, *RMS-11 User's Guide*, 3-2
- CONNECT operation, *RMS-11 User's Guide*, 3-7
- deferred write, *RMS-11 User's Guide*, 3-14
- design, *RMS-11 User's Guide*, 3-1
 - allocation, *RMS-11 User's Guide*, 3-4
 - contiguity, *RMS-11 User's Guide*, 3-5
 - medium, *RMS-11 User's Guide*, 3-3
 - record format, *RMS-11 User's Guide*, 3-3
- directory operations, *RMS-11 User's Guide*, 3-15
- DISCONNECT operation, *RMS-11 User's Guide*, 3-7
- end-of-block indicators, *RMS-11 User's Guide*, 3-2
- end-of-file, *RMS-11 User's Guide*, 3-2
- FCS-11 compatibility, *RMS-11 User's Guide*, 3-2
- file operations, *RMS-11 User's Guide*, 3-15
- FIND operation, *RMS-11 User's Guide*, 3-7
- FLUSH operation, *RMS-11 User's Guide*, 3-9
- GET operation, *RMS-11 User's Guide*, 3-9, 3-13 to 3-14
- I/O techniques, *RMS-11 User's Guide*, 3-14
- initial allocation, *RMS-11 User's Guide*, 3-4
- MBC, *RMS-11 User's Guide*, 3-15
- multiple access streams, *RMS-11 User's Guide*, 3-15
- multiple buffers, *RMS-11 User's Guide*, 3-14
- PUT operation, *RMS-11 User's Guide*, 3-10, 3-13
- random access
 - by key, *RMS-11 User's Guide*, 3-2
 - by RFA, *RMS-11 User's Guide*, 3-2
- record operations, *RMS-11 User's Guide*, 3-7
- record size, *RMS-11 User's Guide*, 3-2
- record transfer modes, *RMS-11 User's Guide*, 3-13

- Sequential file organization
 - record transfer modes (cont'd.)
 - locate mode, *RMS-11 User's Guide*, 3-14, 4-13
 - move mode, *RMS-11 User's Guide*, 3-13 to 3-14
 - REWIND operation, *RMS-11 User's Guide*, 3-11
 - sequential access, *RMS-11 User's Guide*, 3-2
 - shared access, *RMS-11 User's Guide*, 3-5
 - block access, *RMS-11 User's Guide*, 3-6
 - record access, *RMS-11 User's Guide*, 3-6
 - record structured files, *RMS-11 User's Guide*, 3-6
 - with undefined records, *RMS-11 User's Guide*, 3-6
 - sharing declarations, *RMS-11 User's Guide*, 3-6
 - stream operations, *RMS-11 User's Guide*, 3-7
 - structure, *RMS-11 User's Guide*, 3-1
 - conceptual, *RMS-11 User's Guide*, 3-2
 - physical, *RMS-11 User's Guide*, 3-1
 - TRUNCATE operation, *RMS-11 User's Guide*, 3-12
 - UPDATE operation, *RMS-11 User's Guide*, 3-12 to 3-14
- Sequential mode
 - FD.INS parameter, *I/O Operations*, 3-6
 - record attribute, *I/O Operations*, 3-9
 - write logical record, *I/O Operations*, 3-29
- /SEQUENTIAL qualifier, *Task Builder*, 11-59
- Serial
 - operations
 - two controllers, *Writing I/O Driver*, 2-7
 - unit operation
 - database structures, *Writing I/O Driver*, 2-7
 - multiple units per controller, *Writing I/O Driver*, 2-7
- /SERIAL_NUMBER qualifier
 - ANALYZE/ERROR_LOG command, *Error Logging*, 3-5, 3-11
 - See also /SERIAL switch arguments, *Error Logging*, 3-11
- Serial command processing
 - definition, *System Management*, 17-8
- /SERIAL keyword
 - SET command, *MCR*, 3-183

- /SERIAL keyword (cont'd.)
 - SET command (VMR), *System Management*, 5-66
 - Serial nondisk device (RMSIFL), *RMS-11 Utilities*, 3-1, 3-12
 - Serial number
 - RPT, *Error Logging*, 3-5, 3-7, 3-11
 - significant digits, *Error Logging*, B-1
 - /SERIAL switch
 - RPT, *Error Logging*, 3-5, 3-11
 - See also /SERIAL_NUMBER qualifier arguments, *Error Logging*, 3-5, 3-11
 - processing, *Error Logging*, 4-4
 - Service routine, *Writing I/O Driver*, 1-2
 - See also Executive services
 - summaries of Executive, *Writing I/O Driver*, 3-4, 7-34
 - /SE switch, *Task Builder*, 10-39
 - RMSRST utility, *RMS-11 Utilities*, 7-3, 7-9
 - SET /COLOG command
 - options
 - /COTERM, *System Management*, 9-6
 - /LOGFILE, *System Management*, 9-6
 - /NOCOTERM, *System Management*, 9-6
 - /NOLOGFILE, *System Management*, 9-8
 - OFF, *System Management*, 9-5
 - ON, *System Management*, 9-5
 - SET /NOOPT command
 - displaying optimization status, *System Management*, 14-3
 - SET /OPT command, *System Management*, 14-2
 - displaying optimization status, *System Management*, 14-3
 - format, *System Management*, 14-2
 - SET /PASSWORD command, *System Management*, 2-2
 - SET /PLCTL command, *System Management*, 8-10
 - SET ACCOUNTING command, *System Management*, 10-9
 - format, *System Management*, 10-9
 - options, *System Management*, 10-9
 - parameters
 - EXTEND_SIZE, *System Management*, 10-9
 - FILE, *System Management*, 10-9
 - SCAN_RATE, *System Management*, 10-9
 - SET ACCOUNTING command
 - parameters (cont'd.)
 - STATISTICS_SCAN, *System Management*, 10-9
 - TASK, *System Management*, 10-9
 - SETADC: subroutine
 - set channel information
 - K-series, *I/O Drivers*, 13-25
 - LADRV, *I/O Drivers*, 12-20
 - Set Affinity directive, *Executive*, 5-265
 - SET and SHOW commands, *DCL*, 1-3
 - Set-backup-file operation
 - subpacket information, *Error Logging*, 4-65
 - SET command, *MCR*, 3-151; *DCL*, 2-1;
 - Introduction*, 1-17
 - allocation, *RMS-11 Utilities*, 2-10
 - brief description, *MCR*, 1-5
 - /BUFFERSIZE keyword
 - messages to CO, *System Management*, 9-4
 - /COLOG keyword, *System Management*, 9-5
 - CON, *System Management*, 4-29
 - examples, *System Management*, 4-30
 - format, *System Management*, 4-29
 - options, *System Management*, 4-29
 - ALARM, *System Management*, 4-29
 - CSR, *System Management*, 4-29
 - TIMER, *System Management*, 4-29
 - VEC, *System Management*, 4-29
 - requirement, *System Management*, 4-30
 - values, *System Management*, 4-29
 - defining areas by default, *RMS-11 Utilities*, 2-17, 2-43
 - defining areas explicitly, *RMS-11 Utilities*, 2-43
 - disk data caching, *System Management*, 15-12
 - format, *Batch and Queue*, 3-11; *MCR*, 3-152
 - INDEX_AREA attribute, *RMS-11 Utilities*, 2-41
 - keywords
 - /BUF, *MCR*, 3-159
 - /CHAR_LENGTH, *MCR*, 3-161
 - /CLI, *MCR*, 3-96, 3-161
 - /COLOG, *MCR*, 3-161
 - /CRASHDEV, *MCR*, 3-161
 - /DCL, *MCR*, 3-162
 - /DEF, *MCR*, 3-162
 - /HFILL, *MCR*, 3-167
 - /HOST, *MCR*, 3-168

SET command

keywords (cont'd.)

/INQUIRE, MCR, 3-169
/LIBUIC, MCR, 3-105, 3-170
/LINES, MCR, 3-170
list, MCR, 3-152 to 3-157
/MAXEXT, MCR, 3-172
/MAXPKT, MCR, 3-172
/MCR, MCR, 3-172
/NETUIC, MCR, 3-173
/[NO]ABAUD, MCR, 3-157
/[NO]ANSI, MCR, 3-158
/[NO]AVO, MCR, 3-158
/[NO]BLKMOD, MCR, 3-158
/[NO]BRO, MCR, 3-159
/[NO]CACHE, MCR, 3-159
/[NO]CRT, MCR, 3-161
/[NO]DEC, MCR, 3-162
/[NO]DPRO, MCR, 2-4, 3-163
/[NO]EBC, MCR, 3-164
/[NO]ECHO, MCR, 3-165
/[NO]EDIT, MCR, 3-165
/[NO]ESCSEQ, MCR, 3-166
/[NO]FDX, MCR, 3-166
/[NO]FORMFEED, MCR, 3-166
/[NO]HHT, MCR, 3-167
/[NO]HOLD, MCR, 2-16, 3-168
/[NO]HSYNC, MCR, 3-169
/[NO]LOGON, MCR, 3-171
/[NO]LOWER, MCR, 3-171
/[NO]MAIN, MCR, 3-171
/[NO]NAMED, MCR, 3-173
/[NO]OPT, MCR, 3-174
/[NO]OVLP, MCR, 3-174
/[NO]PAR, MCR, 3-175
/[NO]PARITY, MCR, 3-176
/[NO]PASTHRU, MCR, 3-177
/[NO]PRINTER_PORT, MCR, 3-178
/[NO]PRIV, MCR, 2-18, 3-180
/[NO]PUB, MCR, 2-12, 3-180
/[NO]REGIS, MCR, 3-180
/[NO]REMOTE, MCR, 3-181
/[NO]RPA, MCR, 3-182
/[NO]SERIAL, MCR, 3-183
/[NO]SLAVE, MCR, 2-18, 3-183
/[NO]SOFT, MCR, 3-184
/[NO]TTSYNC, MCR, 3-187
/[NO]TYPEAHEAD, MCR, 3-187
/[NO]VFILL, MCR, 3-189
/[NO]VTLOGON, MCR, 3-189
/[NO]WCHK, MCR, 3-189
/[NO]WRAP, MCR, 3-190

SET command

keywords (cont'd.)

/NOCEX, MCR, 3-174
/PASSWORD, MCR, 3-177
/PLCTL, MCR, 3-178
/POOL, MCR, 3-179
/RNDC, MCR, 3-182
/RNDH, MCR, 3-182
/RNDL, MCR, 3-182
/SECPOL, MCR, 3-183; *System Management*, 8-14
/SPEED, MCR, 3-184
/SWPC, MCR, 3-185
/SWPR, MCR, 3-185
/SYSUIC, MCR, 3-105, 3-185
/TERM, MCR, 3-185
/TOP, MCR, 3-186; *System Management*, 4-25
/UIC, MCR, 3-188
LEVEL1_INDEX_AREA attribute, *RMS-11 Utilities*, 2-41
nonprivileged options, MCR, 3-151
privileged options, MCR, 3-151
PROTECTION attribute, *RMS-11 Utilities*, 2-33
RMSDES utility, *RMS-11 Utilities*, 2-13, 2-17, 2-20, 2-33
SET [NO]PARTITION, *DCL*, 7-46 to 7-49
SET [DAY]TIME, *DCL*, 2-2, 8-2
SET DEBUG, *DCL*, 1-20, 9-32
SET DEFAULT, *DCL*, 2-6, 4-96 to 4-99, 9-32
SET DEVICE, *DCL*, 5-134 to 5-137, 9-33
SET FILE, *DCL*, 4-101 to 4-103, 9-33
SET GROUPFLAGS, *DCL*, 7-75 to 7-76, 9-34
SET HOST, *DCL*, 1-17, 9-34
SET LIBRARY/DIRECTORY, *DCL*, 8-10, 9-34
SET PARTITION, *DCL*, 9-34
SET PASSWORD, *DCL*, 3-10 to 3-11, 9-35
SET PRIORITY, *DCL*, 7-70 to 7-71, 9-35
SET PROTECTION, *DCL*, 4-107 to 4-109, 9-35
SET PROTECTION/DEFAULT, *DCL*, 4-110 to 4-112, 9-35
SET QUEUE, *DCL*, 4-89 to 4-91
SET QUEUE/ENTRY, *DCL*, 9-36
SET QUEUE/JOB, *DCL*, 9-36
SET SYSTEM, *DCL*, 8-5 to 8-7, 9-37
SET TERMINAL, *DCL*, 9-37 to 9-39
SET UIC, *DCL*, 4-104 to 4-105, 9-39

SET command (cont'd.)

- /TOP qualifier
 - using added memory, *System Management*, 4-28
- /UIC keyword
 - changing default UIC, MCR, 2-3
- VMR, *System Management*, 5-46
 - definition, *System Management*, 5-46
 - examples, *System Management*, 5-71 to 5-75
 - format, *System Management*, 5-46
 - keywords
 - /AFF, *System Management*, 5-51
 - /BOT, *System Management*, 5-52 to 5-53
 - /BUF, *System Management*, 5-53
 - /CHAR_LENGTH, *System Management*, 5-53
 - /HFILL, *System Management*, 5-55
 - /LIBUIC, *System Management*, 5-56
 - /LINES, *System Management*, 5-56
 - /MAXEXT, *System Management*, 5-57
 - /NETUIC, *System Management*, 5-57
 - /[NO]ABAUD, *System Management*, 5-50
 - /[NO]ANSI, *System Management*, 5-51
 - /[NO]AVO, *System Management*, 5-51
 - /[NO]BLKMOD, *System Management*, 5-52
 - /[NO]BRO, *System Management*, 5-53
 - /[NO]CRT, *System Management*, 5-53
 - /[NO]DEC, *System Management*, 5-54
 - /[NO]EBC, *System Management*, 5-54
 - /[NO]ECHO, *System Management*, 5-54
 - /[NO]EDIT, *System Management*, 5-54
 - /[NO]ESCSEQ, *System Management*, 5-55
 - /[NO]FDX, *System Management*, 5-55
 - /[NO]FORMFEED, *System Management*, 5-55

SET command

VMR

keywords (cont'd.)

- /[NO]HHT, *System Management*, 5-55
- /[NO]HSYNC, *System Management*, 5-56
- /[NO]LOGON, *System Management*, 5-56
- /[NO]LOWER, *System Management*, 5-57
- /[NO]OPT, *System Management*, 5-57
- /[NO]PAR, *System Management*, 5-58 to 5-60
- /[NO]PARITY, *System Management*, 5-60
- /[NO]PASTHRU, *System Management*, 5-61
- /[NO]PRINTER_PORT, *System Management*, 5-63
- /[NO]PRIV, *System Management*, 5-63
- /[NO]PUB, *System Management*, 5-63
- /[NO]REGIS, *System Management*, 5-63
- /[NO]REMOTE, *System Management*, 5-63 to 5-64
- /[NO]RPA, *System Management*, 5-65
- /[NO]SERIAL, *System Management*, 5-66
- /[NO]SLAVE, *System Management*, 5-66
- /[NO]SOFT, *System Management*, 5-66
- /[NO]TTSYNC, *System Management*, 5-69
- /[NO]TYPEAHEAD, *System Management*, 5-69 to 5-70
- /[NO]VFILL, *System Management*, 5-70
- /[NO]WCHK, *System Management*, 5-70
- /[NO]WRAP, *System Management*, 5-70
- /PLCTL, *System Management*, 5-61
- /POOL, *System Management*, 5-62
- /POOLSIZE, *System Management*, 5-62
- /RNDC, *System Management*, 5-64

SET command

VMR

keywords (cont'd.)

- /RNDH, System Management, 5-65*
- /RNDL, System Management, 5-65*
- /SECPOL, System Management, 5-65*
- /SPEED, System Management, 5-66*
- /SWPC, System Management, 5-67*
- /SWPR, System Management, 5-67*
- /SYSUIC, System Management, 5-67*
- /TERM, System Management, 5-67*
- /TOP, System Management, 5-68 to 5-69*
- /UIC, System Management, 5-70*
- keyword table, *System Management, 5-46 to 5-50*
- saving secondary pool, *System Management, 8-18*
- uses, *System Management, 5-46*
- with GET, *RMS-11 Utilities, 2-25*
- Set Command Line Interpreter directive, *Executive, 5-215*
- .SETD directive, Indirect, 2-89*
- SET DEFAULT command, *Introduction, 3-10*
- Set Default Directory directive, *Executive, 5-219*
- SET DEVICE command
 - /CHECKPOINT_FILE qualifier, System Management, 1-5*
- SET ERROR_LOG command, *Error Logging, 2-4*
 - qualifiers, *Error Logging, 2-4, 2-9 to 2-10, 2-11 to 2-13*
- Set Event Flag directive, *Executive, 5-228*
- SETF\$ directive, *Executive, 5-228*
- .SETF directive, Indirect, 2-87*
- \$SETGSA macro, *RMS-11 Macro, 2-20*
- SET HOST/DTE command, *Utilities, C-4*
 - example, *Utilities, C-6*
 - format, *Utilities, C-4*
 - option
 - /DIAL, Utilities, C-5*
 - /MUTE, Utilities, C-5*
 - /VERSION, Utilities, C-5*
 - parameters, *Utilities, C-4*
- SETIBF: subroutine
 - setting array for buffered sweep
 - K-series, *I/O Drivers, 13-26*
 - LADRV, *I/O Drivers, 12-21*

/SET keyword

- SWITCH REGISTER command, *MCR, 3-201*
- .SETL directive, Indirect, 2-87*
- \$SET macro, *RMS-11 Macro, 2-11*
- .SETN directive, Indirect, 2-88*
- .SETO directive, Indirect, 2-89*
- Set operational characteristic
 - LRDRV, *I/O Drivers, 11-6*
- SET PARTITION command
 - /TOP qualifier, System Management, 4-25*
 - using added memory, *System Management, 4-28*
- SET PASSWORD command, *System Management, 2-2; Introduction, 3-10*
- SET QUEUE command, *Introduction, 3-14*
 - example, *Batch and Queue, 2-19*
 - file format
 - qualifiers, *Batch and Queue, 2-19*
 - job format
 - qualifiers, *Batch and Queue, 2-19*
- .SETS directive, Indirect, 2-90*
- SET statement
 - CFL, *Error Logging, 5-30*
- SET SYSTEM command
 - /POOL/LIMITS qualifier, System Management, 8-10*
- Set System Time directive, *Executive, 5-268*
- Set Task Default UIC function (GIN\$), *Executive, 5-114*
- Set Task Privilege function (GIN\$), *Executive, 5-114*
- .SETT directive, Indirect, 2-87*
- SET TERMINAL command, *Utilities, C-3; DCL, 3-19, 3-38 to 3-50; Introduction, 1-17*
 - option
 - /NOECHO, Utilities, C-3*
 - /SLAVE, Utilities, C-3*
 - qualifiers
 - /INQUIRE, DCL, 3-41*
 - /[NO]CONTROL, DCL, 3-40*
 - /[NO]SERIAL, DCL, 3-48*
- Setup command
 - Active task display, *System Management, 7-11*
 - OWNER, *System Management, 7-11*
 - PRIORITY, *System Management, 7-11*
 - TASK, *System Management, 7-11*
 - Cache region display
 - RATE, *System Management, 7-21*
 - REGION, *System Management, 7-21*

Setup command (cont'd.)

- I/O Counts display, *System Management*, 7-16
 - DEVICE, *System Management*, 7-17
 - RATE, *System Management*, 7-17
- Memory display, *System Management*, 7-8
 - FREE, *System Management*, 7-8
 - RATE, *System Management*, 7-8
- RMD, *System Management*, 7-2
- System Statistics display, *System Management*, 7-19
- Task Header display
 - RATE, *System Management*, 7-14
 - TASK, *System Management*, 7-14
- truncating, *System Management*, 7-11
- SF.GMC function
 - TTDRV, *I/O Drivers*, 2-20, 2-53
 - VTDRV, *I/O Drivers*, 3-6
- SF.SMC function
 - TTDRV, *I/O Drivers*, 2-20, 2-61
 - VTDRV, *I/O Drivers*, 3-7
- /SF file keyword
 - SAVE command, *MCR*, 3-149
- SFPA\$ directive, *Executive*, 5-229
- /SF switch
 - DMP utility, *Utilities*, 5-7
- /SG switch, *Task Builder*, 10-40
- Shadowed pair
 - definition, *System Management*, 1-15, 16-1
 - primary disk, *System Management*, 16-1
 - secondary disk, *System Management*, 16-1
 - selecting devices for, *System Management*, 16-2
- Shadow Recording, *System Management*, 16-1
 - See also Shadowed pair
 - bad blocks and, *System Management*, 16-10
 - catchup
 - definition, *System Management*, 16-5
 - commands
 - ABORT, *System Management*, 16-7
 - CONTINUE, *System Management*, 16-8
 - DISPLAY, *System Management*, 16-9
 - START, *System Management*, 16-5
 - STOP, *System Management*, 16-6
 - control commands, *System Management*, 16-4
 - controlling, *System Management*, 16-4
 - description, *System Management*, 1-15, 16-1
 - error handling, *System Management*, 16-10
 - error messages, *System Management*, 16-11

Shadow Recording (cont'd.)

- errors
 - primary disk, *System Management*, 16-10
 - secondary disk, *System Management*, 16-10
 - simultaneous (both disks), *System Management*, 16-11
 - invoking, *System Management*, 16-4
 - media requirements, *System Management*, 16-2
 - preparation for, *System Management*, 16-2
- shadowed pair
 - creating equivalent bad block data for, *System Management*, 16-2
- SYSGEN question, *System Generation*, 3-27
- uses, *System Management*, 16-1
- write-checking, *System Management*, 16-10
- /SHAREABLE:COMMON qualifier, *Task Builder*, 11-60
- /SHAREABLE:LIBRARY qualifier, *Task Builder*, 11-61
- /SHAREABLE[:TASK] qualifier, *Task Builder*, 11-62
- Shareable device
 - definition, *System Management*, 3-8
- /SHAREABLE qualifier
 - INITIALIZE/PROCESSOR command, *System Management*, 3-23
 - MOUNT command, *DCL*, 5-13
- Shareable region, *Executive*, 3-5
- Shared access, *RMS-11 User's Guide*, 1-17;
RMS-11 Intro, 2-4
- See also Access sharing
- access declarations, *RMS-11 User's Guide*, 2-6
 - read/write, *RMS-11 User's Guide*, 2-6
 - read-only, *RMS-11 User's Guide*, 2-6
- application design
 - consideration, *RMS-11 User's Guide*, 2-5
- bucket locking, *RMS-11 User's Guide*, 2-8
- deferred write
 - to relative files, *RMS-11 User's Guide*, 4-14
- file open, *I/O Operations*, 2-14, 3-11
- multiple access streams, *RMS-11 User's Guide*, 2-9 to 2-10
- programming considerations, *RMS-11 User's Guide*, 2-10

Shared access (cont'd.)
 sharing declarations
 user-provided interlocks, *RMS-11 User's Guide*, 2-7
 system protection codes, *RMS-11 User's Guide*, 2-5
 to indexed files, *RMS-11 User's Guide*, 7-1
 block access, *RMS-11 User's Guide*, 7-1
 record access, *RMS-11 User's Guide*, 7-1
 to relative files, *RMS-11 User's Guide*, 4-6
 block access, *RMS-11 User's Guide*, 4-6
 record access, *RMS-11 User's Guide*, 4-6
 to sequential files, *RMS-11 User's Guide*, 3-5
 record structured, *RMS-11 User's Guide*, 3-6
 with undefined records, *RMS-11 User's Guide*, 3-6
 Shared access file, *I/O Operations*, 1-13
 Shared common
 building, *Task Builder*, 10-10, 11-60
 specifying, *Task Builder*, 5-4
 Shared library
 building, *Task Builder*, 11-61
 specifying, *Task Builder*, 5-4
 Shared region, *Executive*, 3-5; *Task Builder*, 5-1
 absolute, *Task Builder*, 5-9
 mapping example, *Task Builder*, 5-9 to 5-10
 specifying, *Task Builder*, 5-11
 accessing, *Task Builder*, 12-12, 12-28
 building, *Task Builder*, 5-3, 10-10, 10-28
 /CO/LI/PI switch, *Task Builder*, 5-6
 common, *Task Builder*, 2-20
 installing, *Task Builder*, 5-3
 library, *Task Builder*, 2-20
 linking, *Task Builder*, 5-16 to 5-19, 5-29
 error conditions, *Task Builder*, 5-19
 options, *Task Builder*, 5-16
 memory-resident overlay, *Task Builder*, 5-15
 number, *Task Builder*, 5-20
 overlaid, *Task Builder*, 5-11
 autoload vector, *Task Builder*, 5-14
 building, *Task Builder*, 5-11
 example, *Task Builder*, 5-12
 options, *Task Builder*, 5-13
 symbol definition file, *Task Builder*, 5-14

Shared region (cont'd.)
 position-independent, *Task Builder*, 5-7, 10-34, 11-20, 11-21
 mapping example, *Task Builder*, 5-7
 specifying, *Task Builder*, 5-7
 relocatable, *Task Builder*, 5-4
 linking, *Task Builder*, 5-19
 size, *Task Builder*, 5-20
 specifying, *Task Builder*, 5-4
 /SHARE keyword
 MOUNT command, *MCR*, 3-115, 3-122
 Sharing
 See Shared access
 Sharing code or data, *MACRO-11*, 5-38
 Sharing declaration
 indexed files, *RMS-11 User's Guide*, 7-1
 relative files, *RMS-11 User's Guide*, 4-6
 sequential files, *RMS-11 User's Guide*, 3-6
 user-provided interlocks, *RMS-11 User's Guide*, 2-7
 SHDDF\$, *Crash Dump Analyzer*, C-72
 SHF
 algorithms, *System Management*, 8-20
 first pass, *System Management*, 8-20
 second pass, *System Management*, 8-21
 conventions, *System Management*, 8-19
 description, *System Management*, 1-4
 installation, *System Management*, 8-19
 monitoring with RMD, *System Management*, 8-19
 overhead, *System Management*, 8-19
 performance, *System Management*, 8-19
 removal, *System Management*, 8-20
 shuffling
 common regions, *System Management*, 8-20
 fixed tasks, *System Management*, 8-20
 partition sections, *System Management*, 8-20
 size, *System Management*, 8-19
 \$SHFCT word
 changing contents, *System Management*, 8-19
 \$SHFTM word, *System Management*, 8-19
 SHIFT key, *DCL*, 3-14
 SHOW ACCOUNTING/DATATRIEVE
 command
 format, *System Management*, 10-17
 parameters, *System Management*, 10-17
 SHOW ACCOUNTING/INFORMATION
 command, *System Management*, 10-12
 format, *System Management*, 10-12

- SHOW ACCOUNTING/INFORMATION command (cont'd.)
 - parameters
 - CO, *System Management*, 10-12
 - SYS, *System Management*, 10-12
 - TASK, *System Management*, 10-12
- SHOW ACCOUNTING/TRANSACTION_
 - FILE command, *System Management*, 10-13
 - example, *System Management*, 10-13
 - format, *System Management*, 10-13
 - Resource Accounting, *System Management*, 10-11
- SHOW ACCOUNTING commands, *System Management*, 10-11
 - summary, *System Management*, 10-11
- SHOW ALL command
 - RMSDES utility
 - defining areas by default, *RMS-11 Utilities*, 2-17
 - defining areas explicitly, *RMS-11 Utilities*, 2-43
- SHOW ASSIGNMENTS command
 - /ALL qualifier, *System Management*, 8-18
- SHOW CACHE command
 - disk data caching, *System Management*, 15-8
- SHOW command, *DCL*, 2-1; *Introduction*, 1-10
 - allocation, *RMS-11 Utilities*, 2-10
 - PROTECTION attribute, *RMS-11 Utilities*, 2-33
 - RMSDES utility, *RMS-11 Utilities*, 2-15, 2-18, 2-26
 - SHOW [DAY]TIME, *DCL*, 2-2, 8-4, 9-41
 - SHOW ACCOUNTING, *DCL*, 9-40
 - SHOW ALL, *RMS-11 Utilities*, 2-4
 - setting attributes, *RMS-11 Utilities*, 2-21
 - SHOW ASSIGNMENTS, *DCL*, 2-5, 5-15, 5-130 to 5-133, 9-40
 - SHOW CACHE, *DCL*, 5-142, 9-40
 - SHOW CLOCK_QUEUE, *DCL*, 7-72, 9-40
 - SHOW COMMON, *DCL*, 7-73 to 7-74, 9-41
 - SHOW DEFAULT, *DCL*, 4-100, 9-41
 - SHOW DEVICES, *DCL*, 5-5, 5-138 to 5-141, 9-41
 - SHOW GROUPFLAGS, *DCL*, 7-77
 - SHOW HOST, *DCL*, 1-19, 9-42
 - SHOW LIBRARY, *DCL*, 8-11, 9-42
- SHOW command (cont'd.)
 - SHOW LOGICALS, *DCL*, 2-5, 5-15, 5-130 to 5-133, 9-42
 - SHOW MEMORY, *DCL*, 2-2, 8-14 to 8-17, 9-43
 - SHOW PARTITIONS, *DCL*, 7-50 to 7-52, 9-43
 - SHOW PROCESSOR, *DCL*, 2-5, 4-88, 9-43
 - SHOW PROTECTION, *DCL*, 4-113, 9-43
 - SHOW QUEUE, *DCL*, 2-4, 4-85 to 4-87, 9-44
 - SHOW SYSTEM, *DCL*, 8-8 to 8-9, 9-44
 - SHOW TASKS, *DCL*, 7-53 to 7-69, 9-45
 - SHOW TASKS/ACTIVE, *DCL*, 7-54 to 7-59
 - SHOW TASKS/INSTALLED, *DCL*, 7-60 to 7-61
 - SHOW TASKS/INSTALLED/DEVICE, *DCL*, 7-62
 - SHOW TASKS/LOGICAL_UNITS, *DCL*, 7-68 to 7-69
 - SHOW TERMINAL, *DCL*, 3-51 to 3-59, 9-46 to 9-47
 - display, *DCL*, 2-3
 - SHOW UIC, *DCL*, 4-106, 9-48
 - SHOW USERS, *DCL*, 8-12 to 8-13, 9-48
 - with GET, *RMS-11 Utilities*, 2-25
- SHOW DEFAULT command, *Introduction*, 1-15, 3-11
- SHOW DEVICE command
 - disk data caching, *System Management*, 15-7
- SHOW DEVICES command, *Introduction*, 3-11
 - status of CO, *System Management*, 9-8
- SHOW ERROR_LOG command, *Error Logging*, 2-2, 2-12
 - See also /SHOW switch
 - nonprivileged command, *Error Logging*, 2-2
 - qualifiers, *Error Logging*, 2-13
- SHOW ID command
 - RMSDES utility, *RMS-11 Utilities*, 2-16
- /SHOW keyword
 - COMMAND LINE INTERPRETER command, *MCR*, 3-44
- SHOW LOGICALS command
 - /ALL qualifier, *System Management*, 8-18
- SHOW MEMORY command, *Introduction*, 6-9
- SHOW PARTITIONS command, *System Management*, 8-15
 - format, *System Management*, 8-15

SHOW PROCESSOR command
 format, *Batch and Queue*, 2-17
 SHOW QUEUE (QUE /LI)
 display, *Batch and Queue*, 1-8
 format, *Batch and Queue*, 1-7
 SHOW QUEUE command, *Batch and Queue*,
 2-14; *Introduction*, 3-14
 display, *Batch and Queue*, 2-14 to 2-17
 format, *Batch and Queue*, 2-14
 qualifiers, *Batch and Queue*, 2-14
 /SHOW switch
 ELI, *Error Logging*, 2-2, 2-12
 See also SHOW ERROR_LOG
 command
 example, *Error Logging*, 2-13 to 2-14
 nonprivileged command, *Error Logging*,
 2-2
 subswitches, *Error Logging*, 2-13
 SHOW TASKS/ACTIVE command
 secondary pool usage, *System Management*,
 8-17
 SHOW TASKS/INSTALLED command
 secondary pool usage, *System Management*,
 8-17
 SHOW TASKS command, *Introduction*, 1-18,
 5-5
 SHOW TASKS/ACTIVE/DYNAMIC, *DCL*,
 7-63 to 7-65, 9-45
 SHOW TASKS:taskname/DYNAMIC, *DCL*,
 7-66 to 7-67, 9-45
 SHOW TERMINAL command, *Introduction*,
 1-17
 SHOW TIME command, *Introduction*, 1-10,
 3-12
 SHOW USERS command, *Introduction*, 1-18,
 3-12
 /SHR switch
 QUE /SP command, *System Management*,
 3-8, 3-23
 /SH switch, *Task Builder*, 10-41
 TKB, *Program Development*, 4-7
 SHUBLD.CMD file, *System Management*, 6-3
 Shuffler
 See SHF
 Shutdown code
 transaction file (Resource Accounting),
 System Management, 10-16
 Shutdown procedure, *System Management*,
 6-4
 See also SHUTUP program
 customizing, *System Management*, 6-3
 example, *System Management*, 6-5

Shutdown procedure (cont'd.)
 execution time, *System Management*, 6-3
 SHUTUP.CMD file, *System Management*, 6-3
 example, *System Management*, 6-4
 installing tasks with, *System Management*,
 6-3
 modifying timeout interval, *System*
 Management, 6-3
 using to shut down DECnet, *System*
 Management, 6-3
 SHUTUP program
 description, *System Management*, 1-12, 6-1
 function performed by, *System Management*,
 6-4
 input prompts, *System Management*, 6-2
 invoking, *System Management*, 6-1
 prerequisites to running, *System*
 Management, 6-1
 warning messages, *System Management*,
 6-2
 SIDR, *RMS-11 User's Guide*, 5-5, 7-9
 changeable keys, *RMS-11 User's Guide*,
 6-10
 duplicate keys, *RMS-11 User's Guide*, 6-8
 to 6-9
 SIGNAL_STOP statement
 CFL, *Error Logging*, 5-40
 Signalling
 CFL, *Error Logging*, 5-39
 SIGNAL statement
 CFL, *Error Logging*, 5-40
 Significant event, *Executive*, 2-1; *I/O Drivers*,
 1-9; *Introduction*, 6-6
 declaring, *Executive*, 5-64, 5-148, 5-217;
 I/O Drivers, 1-13
 list, *Executive*, 2-1
 /SINCE qualifier
 ANALYZE/ERROR_LOG command, *Error*
 Logging, 3-9
 See also /DATE switch
 Single file operation, *I/O Operations*, 5-7
 Single-precision routine
 See Integer routine
 Single quotation mark (')
 component of a term, *MACRO-11*, 2-14
 example of concatenation, *MACRO-11*, 6-8
 flag in assembly listing, *MACRO-11*, 3-1
 for ASCII character storage, *MACRO-11*,
 5-18
 special character in *MACRO-11*,
 MACRO-11, 2-2

Single quotation mark (') (cont'd.)

use to concatenate macro arguments,
MACRO-11, 6-12

SIZE

RMSDES utility, *RMS-11 Utilities*, 2-36

Size command

EDI editor, *Utilities*, 7-38

/SIZE keyword

LOA command (VMR), *System Management*,
5-30

LOAD command, MCR, 3-104; *System
Management*, 8-16

Size parameter

device-specific

CRDRV, *I/O Drivers*, 9-3

DDDRV, *I/O Drivers*, 5-4

disk driver, *I/O Drivers*, 4-8

receiving (LRDRV), *I/O Drivers*, 11-9

tape driver, *I/O Drivers*, 6-7

transmitting (LRDRV), *I/O Drivers*,
11-4

VTDRV, *I/O Drivers*, 3-3

F11ACP, *I/O Operations*, H-9

general (TTDRV), *I/O Drivers*, 2-13

IO.CCO function (TTDRV), *I/O Drivers*,
2-26

IO.EIO function (TTDRV), *I/O Drivers*,
2-28

IO.GTS function (TTDRV), *I/O Drivers*,
2-35

IO.RAL function (TTDRV), *I/O Drivers*,
2-39

IO.RLB function, *I/O Drivers*, 1-30

IO.RNE function (TTDRV), *I/O Drivers*,
2-40

IO.RPR function (TTDRV), *I/O Drivers*,
2-43

IO.RST function (TTDRV), *I/O Drivers*,
2-46

IO.RTT function (TTDRV), *I/O Drivers*,
2-47

IO.RVB function, *I/O Drivers*, 1-31

IO.SMC function (TTDRV), *I/O Drivers*,
2-63

IO.WAL function (TTDRV), *I/O Drivers*,
2-49

IO.WBT function (TTDRV), *I/O Drivers*,
2-52

IO.WLB function, *I/O Drivers*, 1-32

IO.WVB function, *I/O Drivers*, 1-33

SF.GMC function (TTDRV), *I/O Drivers*,
2-54

Size parameter (cont'd.)

standard function

CRDRV, *I/O Drivers*, 9-2

DDDRV, *I/O Drivers*, 5-3

disk driver, *I/O Drivers*, 4-7

LPDRV, *I/O Drivers*, 7-4

tape driver, *I/O Drivers*, 6-6

Slash (/)

EDI editor, *Program Development*, 2-15

ODT, *Program Development*, 5-4

Slash (/), *Task Builder*, 1-7

division operator, MACRO-11, 2-4

special character in MACRO-11,
MACRO-11, 2-2

/C[R] option

relationship to .CROSS/.NOCROSS,
MACRO-11, 5-16

/CROSS option

relationship to .CROSS/.NOCROSS,
MACRO-11, 5-16

/LIBRARY option

relationship to .MCALL, MACRO-11, 6-21

/ML option

relationship to .MCALL, MACRO-11, 6-21

Slash operator (/)

See also Operator

/SLAVE keyword

SET command, MCR, 3-183

SET command (VMR), *System Management*,
5-66

/SLAVE option

SET TERMINAL command, *Utilities*, C-3

/SLAVE qualifier, *Task Builder*, 11-63

Slow mode

specifying, *Task Builder*, 10-38, 11-64

/SLOW qualifier, *Task Builder*, 11-64

Slow TKB

using to improve performance, *Task Builder*,
F-11

SLP utility, *DCL*, 4-24

audit trail, *Utilities*, 13-16

changing value, *Utilities*, 13-18

deleting, *Utilities*, 13-20

setting

length, *Utilities*, 13-17

position, *Utilities*, 13-17

suppressing, *Utilities*, 13-19

calculating checksum, *Utilities*, 13-2

command line, *Utilities*, A-32

edit commands, *Utilities*, 13-5

file

input, *Utilities*, 13-2

- SLP utility
 - file (cont'd.)
 - listing, *Utilities*, 13-3
 - output, *Utilities*, 13-3
 - processing, *Utilities*, 13-3
 - source
 - creating, *Utilities*, 13-14
 - updating, *Utilities*, 13-9
 - indirect command file, *Utilities*, 13-8
 - initiating (invoking), *Utilities*, 13-1
 - messages, *Utilities*, 13-20
 - diagnostic error, *Utilities*, 13-21
 - fatal error, *Utilities*, 13-23
 - informational, *Utilities*, 13-21
 - operator, *Utilities*, 13-9
 - switches
 - /AU, *Utilities*, 13-15
 - /BF, *Utilities*, 13-15
 - /CM, *Utilities*, 13-15
 - /CS, *Utilities*, 13-15
 - /DB, *Utilities*, 13-15
 - /NS, *Utilities*, 13-15
 - /RS, *Utilities*, 13-16
 - /SP, *Utilities*, 13-16
 - /SQ, *Utilities*, 13-16
 - /TR, *Utilities*, 13-16
 - /SL switch, *Task Builder*, 10-48
 - CMP utility, *Utilities*, 4-3
 - ELI, *Error Logging*, 2-3, 2-10
 - See also /SOFT_LIMIT qualifier with /HL switch, *Error Logging*, 2-10
 - RMSBCK utility, *RMS-11 Utilities*, 6-6, 6-10
 - RMSCNV utility, *RMS-11 Utilities*, 4-12
 - RMSRST utility, *RMS-11 Utilities*, 7-6
 - TKB, *System Management*, 5-25
 - /SLV keyword
 - INS command
 - VMR
 - and /SL switch (TKB), *System Management*, 5-25
 - and prototype tasks, *System Management*, 5-25
 - INS command (VMR), *System Management*, 5-25
 - INSTALL command, *MCR*, 3-98
 - RUN command, *MCR*, 3-144
 - \$S macro form, *Executive*, 1-6
 - processing errors, *Executive*, 1-7
 - SMRYEP control file module, *Error Logging*, 4-6, 4-11, A-7
 - SMRYGP control file module, *Error Logging*, 4-7, 4-11, A-7
 - SMRYHP control file module, *Error Logging*, 4-7, 4-11, A-7
 - SMSG\$ directive, *Error Logging*, 1-4; *Executive*, 5-231
 - summary, *I/O Operations*, F-5
 - \$SNAP, *Program Development*, 1-8, 5-9
 - subset of Postmortem Dump Task, *Program Development*, 5-9
 - SNAP\$ macro, *Task Builder*, D-6
 - Snapshot dump, *Task Builder*, D-6 to D-15
 - See \$SNAP
 - example, *Task Builder*, D-10 to D-15
 - /SNGL keyword
 - initializing CLI with, *System Management*, 17-4
 - /SNGL subkeyword
 - COMMAND LINE INTERPRETER
 - command, *MCR*, 3-44
 - SNPBK\$ macro, *Task Builder*, D-6
 - SNXC\$ directive, *Executive*, 5-234
 - /SOFT_LIMIT qualifier
 - SET ERROR_LOG command, *Error Logging*, 2-10
 - See also /SL switch
 - Soft error, *Error Logging*, 1-3; *System Management*, 10-7, 11-3
 - defined, *Error Logging*, 2-10
 - /SOFT keyword
 - SET command, *MCR*, 3-184
 - SET command (VMR), *System Management*, 5-66
 - Software bootstrap
 - definition, *System Generation*, 1-12
 - Software Performance Report
 - See SPR
 - Sorting
 - RMSIFL utility
 - alternate key, *RMS-11 Utilities*, 3-11 to 3-13
 - files, *RMS-11 Utilities*, 3-7
 - input file organization, *RMS-11 Utilities*, 3-9
 - primary key, *RMS-11 Utilities*, 3-9
 - bypassing, *RMS-11 Utilities*, 3-8 to 3-9
 - work files, *RMS-11 Utilities*, 3-7, 3-13
 - SORT option
 - ACNT, *System Management*, 2-13

- Sort routine error code
 - RMSIFL utility, *RMS-11 Utilities*, 3-1, 3-10, 3-12
 - allocating space
 - primary key sort, *RMS-11 Utilities*, 3-13
 - device allocation, *RMS-11 Utilities*, 3-7
- SOURCE
 - RMSDES utility, *RMS-11 Utilities*, 2-30
 - Source file, *Introduction*, 5-3, 5-4, 5-6
 - See also SLP utility
- FORTRAN IV
 - adding debugging statements, *Program Development*, 7-6
 - blank line, *Program Development*, 7-3
 - comment line, *Program Development*, 7-3
 - creating, *Program Development*, 7-2, 7-3
 - editing, *Program Development*, 7-4, 7-6, 7-8
- MACRO-11
 - assembling, *Program Development*, 3-1, 3-2
 - creating from a skeleton, *Program Development*, 2-11
 - editing, *Program Development*, 2-12 to 2-17
 - error, *Program Development*, 3-2, 3-3, 3-4
 - format, *Program Development*, 2-1 to 2-3
 - inserting lines, *Program Development*, 2-17
 - introduction, *Program Development*, 2-1
 - listing, *Program Development*, 3-4, 3-5
 - macro library call, *Program Development*, 6-3, 6-4
- Source language, *Introduction*, 5-3
- Source Language Input Program
 - See also SLP utility
 - See SLP utility
- /-SP, *Crash Dump Analyzer*, 2-8, 2-9
- /SP/EX function
 - QUE /SP command, *System Management*, 3-20
- Space
 - data storage, *RMS-11 User's Guide*, 2-5
 - delimiter in expressions, *MACRO-11*, 2-15
 - I/O buffer size, *RMS-11 User's Guide*, 2-5
- Space (cont'd.)
 - in direct assignment statements, *MACRO-11*, 2-8
 - in macro argument, *MACRO-11*, 6-7
 - separating character, *MACRO-11*, 2-3
 - special character in *MACRO-11*, *MACRO-11*, 2-2
 - task size, *RMS-11 User's Guide*, 2-5
 - terminates operator field, *MACRO-11*, 1-3
 - used in operand field, *MACRO-11*, 1-4
 - valid in angle bracket arguments, *MACRO-11*, 6-6
 - <SPACE> symbol, *Indirect*, 2-19
 - SPACE operation, *RMS-11 Intro*, 4-7
 - access modes, *RMS-11 Intro*, 4-7
 - Space operator
 - See Operator
 - Spanning blocks, *RMS-11 User's Guide*, 1-16, 1-19, 3-1
 - variable-length records, *RMS-11 User's Guide*, 2-16
 - Spawn directive, *Executive*, 5-241
 - effect on default TI, *MCR*, 2-10
 - running an installed task, *MCR*, 2-21
 - Spawning, *Executive*, 4-4
 - SP device, *MCR*, 2-10
 - SPEA\$ directive, *Executive*, 5-236
 - Special character
 - ampersand (&), *MACRO-11*, 2-2
 - asterisk (*), *MACRO-11*, 2-2
 - at sign (@), *MACRO-11*, 2-2, 4-3, 4-4, 4-5, 4-6, 4-8
 - backslash (\), *MACRO-11*, 2-2
 - carriage return, *MACRO-11*, 5-19
 - circumflex (^), *MACRO-11*, 2-2, 6-6
 - colon (:), *MACRO-11*, 2-1, 5-11, 5-20, 5-21, 5-22
 - label terminator, *MACRO-11*, 1-2
 - comma (,), *MACRO-11*, 2-2
 - used in operand field, *MACRO-11*, 1-4
 - dollar sign (\$)
 - reserved for DIGITAL system symbols, *MACRO-11*, 1-3, 2-1, 2-5
 - double colon (::), *MACRO-11*, 2-1, 2-6
 - label terminator, *MACRO-11*, 1-2
 - double equal sign (=), *MACRO-11*, 2-1, 2-6
 - double equal sign colon (==), *MACRO-11*, 2-1, 2-6
 - double quotation mark ("), *MACRO-11*, 2-2, 2-14, 5-18
 - equal sign (=), *MACRO-11*, 2-1, 5-20

Special character (cont'd.)

- equal sign colon (=), *MACRO-11*, 2-1
 - exclamation point (!), *MACRO-11*, 2-2
 - form feed, *MACRO-11*, 5-12, 5-19
 - in macro arguments, *MACRO-11*, 6-7
 - left angle bracket (<), *MACRO-11*, 2-2, 5-11, 5-20, 5-21, 5-22, 5-23
 - left parenthesis, *MACRO-11*, 2-2
 - line feed, *MACRO-11*, 5-19
 - minus sign (-), *MACRO-11*, 2-2
 - null, *MACRO-11*, 5-19
 - number sign (#), *MACRO-11*, 2-2, 4-5, 4-6
 - percent sign (%), *MACRO-11*, 2-1
 - defines register symbols, *MACRO-11*, 2-8, 2-9
 - period (.), *MACRO-11*, 2-2, 2-15
 - assign new value to current location counter, *MACRO-11*, 2-11
 - current location counter, *MACRO-11*, 2-13
 - current location counter symbol, *MACRO-11*, 2-7
 - reserved for DIGITAL system symbols, *MACRO-11*, 1-3, 2-1, 2-5
 - symbol for current location counter, *MACRO-11*, 2-11
 - plus sign (+), *MACRO-11*, 2-2
 - right angle bracket (>), *MACRO-11*, 2-2, 2-3, 5-23
 - right parenthesis, *MACRO-11*, 2-2
 - rubout, *MACRO-11*, 5-19
 - semicolon (;), *MACRO-11*, 2-2, 5-20
 - begins comment field, *MACRO-11*, 1-4
 - single quotation mark ('), *MACRO-11*, 2-2, 2-14, 3-1, 5-18
 - slash (/), *MACRO-11*, 2-2
 - space, *MACRO-11*, 2-2, 2-15
 - in direct assignment statements, *MACRO-11*, 2-8
 - terminates operator field, *MACRO-11*, 1-3
 - used in operand field, *MACRO-11*, 1-4
 - tab, *MACRO-11*, 2-1
 - terminates operator field, *MACRO-11*, 1-3
 - used in operand field, *MACRO-11*, 1-4
 - table, *MACRO-11*, B-1
 - table of, *MACRO-11*, 2-1
- Special character key
- See Character
- Special characters
- use in command line, *MCR*, 1-4

- Special character state table, *I/O Operations*, 7-8
- Special key table
- TTDRV, *I/O Drivers*, 2-72, 2-73
- Special symbol, *Indirect*, 1-5, 2-9
- format, *Indirect*, 2-9
- logical, *Indirect*, 2-10
- numeric, *Indirect*, 2-12
- string, *Indirect*, 2-22
- type, *Indirect*, 2-9
- Special symbols
- ICP, *Introduction*, 4-3
- Specify Command Arrival AST directive, *Executive*, 5-211
- Specify Floating Point Processor Exception AST directive, *Executive*, 5-229
- Specify Parity Error AST directive, *Executive*, 5-236
- Specify Power Recovery AST directive, *Executive*, 5-239
- Specify Receive-By-Reference AST directive, *Executive*, 5-263
- Specify Receive Data AST directive, *Executive*, 5-253
- Specify Requested Exit AST directive, *Executive*, 5-255
- BYE command, *MCR*, 3-36
- effect on blocked task, *MCR*, 3-29
- Specify Requested Exit AST directive (SREX\$), *MCR*, 3-2
- Specify SST Vector Table for Debugging Aid directive, *Executive*, 5-277
- DEBUG command, *MCR*, 3-49
- Specify SST Vector Table for Task directive, *Executive*, 5-279
- Speed
- application design consideration, *RMS-11 User's Guide*, 2-3
- /SPEED keyword
- SET command, *MCR*, 3-184
- SET command (VMR), *System Management*, 5-66
- /SP function
- QUE /SP command, *System Management*, 3-20
- SPND\$\$ directive, *Executive*, 5-238
- Spool
- file, *Utilities*, 12-30
- library file, *Utilities*, 10-29
- Spooled device, *Batch and Queue*, 2-1
- Spooling, *I/O Operations*, 8-1

- Spooling (cont'd.)
 - defined, *Batch and Queue*, 2-1; *System Management*, 3-19
 - line printer
 - multistream, *System Management*, 3-1
 - .PRINT subroutine, *I/O Operations*, 8-2
 - transparent, *System Management*, 3-1
- Spooling device
 - See SP device
- SPR, *Writing I/O Driver*, 1-25
- SPRA\$ directive, *Executive*, 5-239
- /SP switch, *Task Builder*, 10-49
 - CMP utility, *Utilities*, 4-3
 - CRF utility, *Utilities*, B-3
 - DMP utility, *Utilities*, 5-7
 - FLX utility, *Utilities*, 8-8
 - LBR utility, *Program Development*, 6-11; *Utilities*, 10-29
 - MAC command, *Program Development*, 3-5, 3-7, 6-4
 - PIP utility, *Program Development*, 3-8; *Utilities*, 12-30
 - SLP utility, *Utilities*, 13-16
- SPWN\$ directive, *Executive*, 5-241
 - effect on default TI, MCR, 2-10
 - relationship to EXECUTE command
 - IOX, *System Management*, 12-27
 - running an installed task, MCR, 2-21
- SPY command
 - IOX, *System Management*, 12-54
 - examples, *System Management*, 12-54
 - logical names, *System Management*, 12-54
- /SQ switch, *Task Builder*, 10-50
 - SLP utility, *Utilities*, 13-16
- SRC argument
 - for .LIST/.NLIST, MACRO-11, 5-8
- SRDA\$ directive, *Executive*, 5-253
- SREA\$ directive, *Executive*, 5-255
 - See Specify Requested Exit AST directive
- BYE command, MCR, 3-36
- SREF\$ directive, *Executive*, 5-260
- S register, *Debugging*, 2-5, 5-3; XDT, 2-11
- SREX\$ directive, *Executive*, 5-255; MCR, 3-2
 - See Specify Requested Exit AST directive
- SRRA\$ directive, *Executive*, 5-263
- /SR switch
 - PIP utility, *Utilities*, 12-31
- SS.MAS state setting
 - transmitter (LRDRV), *I/O Drivers*, 11-5
- SS.NEU state setting
 - transmitter (LRDRV), *I/O Drivers*, 11-5
- SSM command, *Error Logging*, 1-3
 - See also SYSTEM SERVICE MESSAGE command
- /SS switch, *Task Builder*, 10-51 to 10-52
 - LBR utility, *Utilities*, 10-29
- SST, *Executive*, 2-5; XDT, 1-5
 - ODT, *Program Development*, 5-8
 - relation to Postmortem Dump, *Program Development*, 1-8
 - role in task termination, *Program Development*, 4-8, 4-9
 - service routine, *Executive*, 2-6
 - interrupt, *I/O Drivers*, 1-10
 - specifying, *Executive*, 5-277, 5-279
 - stack contents register, *Debugging*, 2-6, 5-4
 - vector
 - handling, *Debugging*, 2-9
 - register, *Debugging*, 2-6, 5-4
- SST vector
 - declaring address, *Task Builder*, 12-38
 - ODT, *Task Builder*, 12-25
- Stack
 - declaring size, *Task Builder*, 12-35
 - structure, *Writing I/O Driver*, 6-12
 - internal SST fault, *Writing I/O Driver*, 6-10, 6-11
- Stack and register dump
 - Executive*, *Writing I/O Driver*, 6-11
- Stack check
 - card reader (CRDRV), *I/O Drivers*, 9-5
- Stack Depth Indicator
 - See \$STKDP
- STACK option, *Task Builder*, 12-35
- Stack pointer
 - kernel, *Crash Dump Analyzer*, 3-2
- Stack pointer
 - kernel, *Crash Dump Analyzer*, 3-4
 - user, *Crash Dump Analyzer*, 3-2
- Stadd parameter
 - device-specific
 - CRDRV, *I/O Drivers*, 9-3
 - DDDRV, *I/O Drivers*, 5-4
 - disk driver, *I/O Drivers*, 4-8
 - receiving (LRDRV), *I/O Drivers*, 11-9
 - tape driver, *I/O Drivers*, 6-7
 - transmitting (LRDRV), *I/O Drivers*, 11-4
 - VTDRV, *I/O Drivers*, 3-3
 - general (TTDRV), *I/O Drivers*, 2-13

Stadd parameter (cont'd.)

- IO.CCO function (TTDRV), *I/O Drivers*, 2-26
- IO.EIO function (TTDRV), *I/O Drivers*, 2-28
- IO.GTS function (TTDRV), *I/O Drivers*, 2-35
- IO.RAL function (TTDRV), *I/O Drivers*, 2-39
- IO.RLB function, *I/O Drivers*, 1-30
- IO.RNE function (TTDRV), *I/O Drivers*, 2-40
- IO.RPR function (TTDRV), *I/O Drivers*, 2-43
- IO.RST function (TTDRV), *I/O Drivers*, 2-45
- IO.RTT function (TTDRV), *I/O Drivers*, 2-47
- IO.RVB function, *I/O Drivers*, 1-31
- IO.SMC function (TTDRV), *I/O Drivers*, 2-62
- IO.WAL function (TTDRV), *I/O Drivers*, 2-49
- IO.WBT function (TTDRV), *I/O Drivers*, 2-52
- IO.WLB function, *I/O Drivers*, 1-32
- IO.WVB, *I/O Drivers*, 1-33
- SF.GMC function (TTDRV), *I/O Drivers*, 2-53
- standard function
 - CRDRV, *I/O Drivers*, 9-2
 - DDDRV, *I/O Drivers*, 5-3
 - disk driver, *I/O Drivers*, 4-7
 - LPDRV, *I/O Drivers*, 7-4
 - tape driver, *I/O Drivers*, 6-6
- STAF\$ directive, *Executive*, 5-266
- Stall I/O
 - F11ACP performance (disk driver), *I/O Drivers*, 4-12
 - RC25, *I/O Drivers*, 4-12
 - system performance (disk driver), *I/O Drivers*, 4-12
- Standalone BRU
 - See BRU utility
- Standalone Configuration and Disk Sizing Program
 - See CNF
- Standalone maintenance, *System Management*, 11-6
- Standalone system
 - definition, *System Generation*, 1-12

Standard

- for coding programs, *MACRO-11*, E-1
- Standard function list
 - TTDRV, *I/O Drivers*, 2-21
- Standard ODL file, *RMS-11 User's Guide*, 8-3, 8-5
 - and file organization, *RMS-11 User's Guide*, 8-5
- DAP11X, *RMS-11 User's Guide*, 8-6
- RMS11S, *RMS-11 User's Guide*, 8-5
- RMS11X, *RMS-11 User's Guide*, 8-5
- RMS12X, *RMS-11 User's Guide*, 8-6
- START/ACCOUNTING command
 - parameters
 - CRASH_REASON, *System Management*, 10-5
 - EXTEND_SIZE, *System Management*, 10-5
 - FILE, *System Management*, 10-5
 - POOL_RESERVE, *System Management*, 10-5
 - SCAN_RATE, *System Management*, 10-5
 - STATISTICS_SCAN, *System Management*, 10-5
 - SYSTEM_STATISTICS, *System Management*, 10-6
 - TASK, *System Management*, 10-6
 - Resource Accounting, *System Management*, 10-5
- START/ERROR_LOG command, *Error Logging*, 2-3, 2-5, 2-10
 - See also /LOG switch
 - qualifiers, *Error Logging*, 2-5
- START/PROCESSOR command, *System Management*, 3-36
 - processor types, *System Management*, 3-36
 - qualifiers, *System Management*, 3-36
 - /ALIGN, *System Management*, 3-37
 - /BACKSPACE, *System Management*, 3-37
 - /CONTINUE, *System Management*, 3-37
 - /FLAG, *System Management*, 3-37
 - /FORMS, *System Management*, 3-37
 - /FORWARDSPACE, *System Management*, 3-37
 - /NEXT_JOB, *System Management*, 3-37
 - overview, *System Management*, 3-37
 - /PAGE, *System Management*, 3-37
 - /RESTART, *System Management*, 3-38

- START/PROCESSOR command
 - qualifiers (cont'd.)
 - /TOP_OF_FILE, *System Management*, 3-38
- START/QUEUE/MANAGER command, *System Management*, 3-41
 - starting QMG, *System Management*, 3-4
- START/QUEUE command, *System Management*, 3-40
- START command, *DCL*, 7-26, 9-48
 - IOX, *System Management*, 12-55
 - functions, *System Management*, 12-55
 - Interactive mode
 - restriction, *System Management*, 12-10
 - Shadow Recording, *System Management*, 16-5
 - START/PROCESSOR, *DCL*, 9-48
 - START/QUEUE, *DCL*, 9-49
 - START/QUEUE/MANAGER, *DCL*, 9-49
 - START/UNBLOCK, *DCL*, 7-27, 9-49
- Starting address of program
 - specify with .END directive, *MACRO-11*, 5-33
- STARTUP.CMD file, *System Generation*, 4-5
 - Autoconfigure, *System Generation*, 5-33; *System Management*, 4-1
 - function, *System Management*, 1-10
- Startup command file, *Introduction*, 2-2
- Startup procedure
 - Autoconfigure, *System Generation*, 5-33; *System Management*, 4-1
 - content, *System Generation*, 4-4
 - description, *System Generation*, 4-4
 - pregenerated kit, *System Generation*, 5-20
 - STARTUP.CMD file, *System Generation*, 4-5
 - system, *System Generation*, 4-4
- STATES\$ macro, *I/O Operations*, 7-1, 7-2
- Statement
 - format, *MACRO-11*, 1-1
 - MACRO-11*, *Program Development*, 1-4
 - format, *Program Development*, 2-3
- State parameter
 - device-specific function
 - transmitting (LRDRV), *I/O Drivers*, 11-5
 - IO.STC function
 - transmitter (LRDRV), *I/O Drivers*, 11-6
- \$STATE program section, *I/O Operations*, 7-2
- State setting
 - transmitter (LRDRV), *I/O Drivers*, 11-5
- State table, *I/O Operations*, 7-1
 - arrangement of syntax types, *I/O Operations*, 7-7
 - initializing, *I/O Operations*, 7-2
 - rejecting transitions, *I/O Operations*, 7-18
 - special character, *I/O Operations*, 7-8
 - using subexpressions, *I/O Operations*, 7-18
- Static common region, *Executive*, 3-5
- Static structure, *Writing I/O Driver*, 2-1
- Statistics
 - device
 - Resource Accounting, *System Management*, 10-7
- STATISTICS_SCAN parameter
- SET ACCOUNTING command, *System Management*, 10-9
- START/ACCOUNTING command, *System Management*, 10-5
- Statistics block, *I/O Operations*, D-1
 - address, *I/O Operations*, 3-11
- /STATISTICS qualifier
 - ANALYZE/ERROR_LOG command, *Error Logging*, 3-5, 3-21
 - See also /SUMMARY switch
 - arguments, *Error Logging*, 3-21, 3-23
- Statistics scan
 - Resource Accounting, *System Management*, 10-6
- Stat parameter
 - device-specific function (VTDRV), *I/O Drivers*, 3-3
- Status
 - completion (VTDRV), *I/O Drivers*, 3-6
 - end-of-volume
 - unlabeled tape (tape driver), *I/O Drivers*, 6-15
 - I/O*, *I/O Drivers*, 1-36
 - completion (VTDRV), *I/O Drivers*, 3-5
 - condition, *I/O Drivers*, 1-38
 - CRDRV, *I/O Drivers*, 9-6
 - directive, *I/O Drivers*, 1-37
 - IO.XOP function (XEDRV), *I/O Drivers*, 10-6
 - resetting transport (tape driver), *I/O Drivers*, 6-16
 - returning (TTDRV), *I/O Drivers*, 2-66
 - /STATUS:TASK qualifier, *Batch and Queue*, 3-8
- Status bit
 - for CLI, MCR, 3-45

Status block

- I/O, *I/O Drivers*, 1-5, 1-8, 1-11, 1-26, 1-29, 1-36 to 1-39, 1-39
- CRDRV, *I/O Drivers*, 9-3, 9-6
- DDDRV, *I/O Drivers*, 5-5
- disk driver, *I/O Drivers*, 4-9
- first word content, *I/O Drivers*, 13-29
 - LADRV, *I/O Drivers*, 12-28
- K-series, *I/O Drivers*, 13-6, 13-29
- LADRV, *I/O Drivers*, 12-2, 12-27
- LPDRV, *I/O Drivers*, 7-4
- LRDRV, *I/O Drivers*, 11-4, 11-5, 11-7, 11-11
- tape driver, *I/O Drivers*, 6-10, 6-11
- TTDRV, *I/O Drivers*, 2-12, 2-45, 2-53, 2-62, 2-66, 2-76, 2-78, 2-81
- UNIBUS switch driver, *I/O Drivers*, 14-7, 14-8
- VTDRV, *I/O Drivers*, 3-8, 3-9
- 4-word (LADRV), *I/O Drivers*, 12-27
- XEDRV, *I/O Drivers*, 10-6, 10-7, 10-12, 10-15, 10-19 to 10-21

Status code, *Batch and Queue*, 3-11

- binary value, *I/O Drivers*, 1-37
- ERROR, *Batch and Queue*, 3-10
- SEVERERROR, *Batch and Queue*, 3-10
- SUCCESS, *Batch and Queue*, 3-10
- WARNING, *Batch and Queue*, 3-10

Status Control Block

- See SCB

Status flags

- common, *DCL*, 7-73 to 7-74
- task, *DCL*, 7-56 to 7-58

Status information

- error logging, *Error Logging*, 2-1

Status line

- transaction file, *System Management*, 10-16

Status parameter

- XEDRV
 - IO.XCL function, *I/O Drivers*, 10-19
 - IO.XIN function, *I/O Drivers*, 10-20
 - IO.XRC function, *I/O Drivers*, 10-15
 - IO.XSC function, *I/O Drivers*, 10-7
 - IO.XTL function, *I/O Drivers*, 10-21
 - IO.XTM function, *I/O Drivers*, 10-12

Status return

- CRDRV, *I/O Drivers*, 9-3, 9-6 to 9-7
- DDDRV, *I/O Drivers*, 5-4
- disk driver, *I/O Drivers*, 4-9
- IO.XCL function (XEDRV), *I/O Drivers*, 10-20

Status return (cont'd.)

- IO.XIN function (XEDRV), *I/O Drivers*, 10-20
- IO.XRC function (XEDRV), *I/O Drivers*, 10-18
- IO.XTL function (XEDRV), *I/O Drivers*, 10-22
- IO.XTM function (XEDRV), *I/O Drivers*, 10-15
- LPDRV, *I/O Drivers*, 7-4
- receiver (LRDRV), *I/O Drivers*, 11-11 to 11-12
- tape driver, *I/O Drivers*, 6-10
- transmitter (LRDRV), *I/O Drivers*, 11-7
- UNIBUS switch driver, *I/O Drivers*, 14-7
- VTDRV, *I/O Drivers*, 3-8
- XEDRV, *I/O Drivers*, 10-5

Status word

- F11ACP
- FNB, *I/O Operations*, H-11
- /STB, *Crash Dump Analyzer*, 2-2, 2-8, 2-10
- STB

- See Symbol table file

STB file

- See Symbol definition file

- /STD, *Crash Dump Analyzer*, 2-4, 2-7
- STD, *System Management*, 5-20, 5-26; *DCL*, 7-1 to 7-5

- See also System Task Directory
- dump, *Crash Dump Analyzer*, 3-36
- switch

- See /STD

Step command

- See S command

- STIM\$ directive, *Executive*, 5-268

- \$STKDP, *Writing I/O Driver*, 6-12; *XDT*, 1-4, 1-8, 2-2

- stack depth indicator, *Crash Dump Analyzer*, 4-2; *Writing I/O Driver*, 6-7

- STLO\$ directive, *Executive*, 5-271

- \$STMAP routine, *Writing I/O Driver*, 7-32
 - calling from the driver, *Writing I/O Driver*, 7-3

- \$STMP1 routine, *Writing I/O Driver*, 7-33
 - calling from the driver, *Writing I/O Driver*, 7-3

- STOP/ABORT command, *System Management*, 3-31; *Introduction*, 3-15

- STOP/ACCOUNTING command, *System Management*, 10-10
 - format, *System Management*, 10-10

- STOP/ACCOUNTING command (cont'd.)
 - shutdown reasons
 - CLEAN_UP, *System Management*, 10-10
 - MAINTENANCE, *System Management*, 10-10
 - OTHER, *System Management*, 10-10
 - REBOOT, *System Management*, 10-10
 - SCHEDULED_SHUTDOWN, *System Management*, 10-10
 - SHUTUP, *System Management*, 10-10
 - STOP/ERROR_LOG command, *Error Logging*, 2-7, 2-9
 - See also /NOLOG switch
 - STOP/PROCESSOR command, *System Management*, 3-32
 - processor types, *System Management*, 3-32
 - qualifiers, *System Management*, 3-32
 - /ABORT, *System Management*, 3-33
 - /FILE_END, *System Management*, 3-33
 - /JOB_END, *System Management*, 3-33
 - /PAUSE, *System Management*, 3-33
 - STOP/QUEUE/MANAGER command, *System Management*, 3-35
 - /ABORT qualifier, *System Management*, 3-35
 - STOP/QUEUE command, *System Management*, 3-34
 - STOP\$ directive
 - UNSTOP command, *MCR*, 2-213
 - STOP\$\$ directive, *Executive*, 5-274
 - Stop-bit synchronization, *Executive*, 2-13
 - directives, *Executive*, 2-14
 - STOP command
 - See also ON and IF commands
 - format, *Batch and Queue*, 3-8
 - Shadow Recording, *System Management*, 16-6
 - STOP/ABORT, *DCL*, 4-92, 9-49
 - STOP/BLOCK, *DCL*, 7-24 to 7-25, 9-50
 - STOP/PROCESSOR, *DCL*, 9-50
 - STOP/QUEUE, *DCL*, 9-50
 - STOP/QUEUE/MANAGER, *DCL*, 9-51
 - .STOP directive, *Indirect*, 2-91
 - Stop directive, *Executive*, 5-274
 - UNSTOP command, *MCR*, 2-213
 - Stop for Logical OR of Event Flags directive, *Executive*, 5-271
 - Stop for Single Event Flag directive, *Executive*, 5-275
 - Stop switch
 - card reader (CRDRV), *I/O Drivers*, 9-5
- Storage
 - data, *RMS-11 Intro*, 2-1
- Storage area
 - declaring size, *Task Builder*, 12-16
- \$STORE macro, *RMS-11 Macro*, 2-11
 - example, *RMS-11 Macro*, 7-3, 7-7, 7-11, 7-15
- STPSWP: subroutine
 - stop sweep
 - K-series, *I/O Drivers*, 13-26
 - LADRV, *I/O Drivers*, 12-22
- %STR\$CHAR
 - CFL string-handling function, *Error Logging*, 5-24
- %STR\$FILE
 - CFL string-handling function, *Error Logging*, 5-24
- %STR\$LENGTH
 - CFL string-handling function, *Error Logging*, 5-23
- %STR\$MATCH
 - CFL string-handling function, *Error Logging*, 5-24
- %STR\$PAD
 - CFL string-handling function, *Error Logging*, 5-24
- %STR\$PARSE
 - CFL string-handling function, *Error Logging*, 5-23
- %STR\$QUOTE
 - CFL string-handling function, *Error Logging*, 5-23
- %STR\$REMAINING
 - CFL string-handling function, *Error Logging*, 5-24
- %STR\$SEARCH
 - CFL string-handling function, *Error Logging*, 5-24
- %STR\$TRAIL
 - CFL string-handling function, *Error Logging*, 5-23
- %STR\$UPCASE
 - CFL string-handling function, *Error Logging*, 5-24
- Stream, *RMS-11 Macro*, 4-2
 - See also Access stream
 - connecting
 - See CONNECT operation
 - disconnecting
 - See DISCONNECT operation
 - record stream, *RMS-11 Macro*, 4-7

- Stream (cont'd.)
 - unlocking bucket
 - See FREE operation
 - writing buffers
 - See FLUSH operation
- Stream operation, *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - See also Operation
- Stream-operation macro
 - \$CONNECT, *RMS-11 Macro*, 5-6
 - declaring, *RMS-11 Macro*, C-3
 - \$DISCONNECT, *RMS-11 Macro*, 5-27
 - \$FLUSH, *RMS-11 Macro*, 5-56
 - \$FREE, *RMS-11 Macro*, 5-58
 - \$REWIND, *RMS-11 Macro*, 5-100
- Stream record format, *RMS-11 User's Guide*, 1-11, 2-16 ; *RMS-11 Intro*, 3-4
 - terminators, *RMS-11 User's Guide*, 2-16; *RMS-11 Intro*, 3-4
- String concatenation binary operator
 - CFL expression, *Error Logging*, 5-10
- String constant, *Indirect*, 2-28
- String conversion
 - CFL, *Error Logging*, 5-4
- STRING data type
 - CFL, *Error Logging*, 5-4
 - numeric values
 - equivalent, *Error Logging*, 5-4
- String declaration
 - CFL, *Error Logging*, 5-4
- String expression, *Indirect*, 2-29
- String key, *RMS-11 User's Guide*, 6-3
 - segmented, *RMS-11 User's Guide*, 6-7
- String-matching binary operator
 - CFL expression, *Error Logging*, 5-13
- String operator
 - CFL expression, *Error Logging*, 5-10
- String symbol, *Indirect*, 2-9, 2-28
 - comparing, *Indirect*, 2-66
 - defining, *Indirect*, 2-44
 - setting, *Indirect*, 2-90
 - testing, *Indirect*, 2-68
- <STRLEN> symbol, *Indirect*, 2-19
- Structure
 - indexed files
 - conceptual, *RMS-11 User's Guide*, 5-4
 - physical, *RMS-11 User's Guide*, 5-2
 - relative files, *RMS-11 User's Guide*, 4-1
 - conceptual, *RMS-11 User's Guide*, 4-1
 - sequential files, *RMS-11 User's Guide*, 3-1
 - conceptual, *RMS-11 User's Guide*, 3-2

- Structure
 - sequential files (cont'd.)
 - physical, *RMS-11 User's Guide*, 3-1
- STSE\$ directive, *Executive*, 5-275; *I/O Drivers*, 1-10
- SU\$-family symbol
 - declaring, *RMS-11 Macro*, C-3
 - value, *RMS-11 Macro*, A-1
- SUB command
 - example, *Batch and Queue*, 3-18
 - file switches, *Batch and Queue*, 3-15
 - log file switches, *Batch and Queue*, 3-15
 - MCR job switches, *Batch and Queue*, 3-15
- Subcontroller device, *Writing I/O Driver*, 1-14
 - block, *Writing I/O Driver*, 1-14
- Subexpression
 - parsing complex command lines, *I/O Operations*, 7-19
- Subfunction
 - TTDRV
 - allowing, *I/O Drivers*, 2-21
 - list
 - device-specific, *I/O Drivers*, 2-22
 - standard, *I/O Drivers*, 2-21
 - modifier
 - extended I/O, *I/O Drivers*, 2-28
- Subfunction bit
 - TTDRV, *I/O Drivers*, 2-14
- \$SUBMIT card
 - command qualifiers, *Batch and Queue*, 3-24
 - See SUBMIT command
 - format, *Batch and Queue*, 3-24
- SUBMIT command, *DCL*, 9-51; *Introduction*, 4-6
 - DCL command qualifiers, *Batch and Queue*, 3-15
 - example, *Batch and Queue*, 3-18
 - file qualifiers, *Batch and Queue*, 3-15
 - format, *Batch and Queue*, 3-1, 3-15
 - log file qualifiers, *Batch and Queue*, 3-15
 - /NOPRINT qualifier, *Batch and Queue*, 3-1
- Subpacket
 - DATA, *Error Logging*, 4-3, 4-4, 4-65 to 4-68
 - declaration, *Error Logging*, 4-10, 4-61
 - definition, *Error Logging*, 4-2
 - DEVICE_ID, *Error Logging*, 4-3, 4-62
 - DEVICE_OP, *Error Logging*, 4-3, 4-63
 - error log, *Error Logging*, 5-2
 - HEADER, *Error Logging*, 4-3
 - required, *Error Logging*, 4-10, 4-61
 - information in, *Error Logging*, 4-61 to 4-68

- Subpacket (cont'd.)
 - IO_ACTIVITY, *Error Logging*, 4-3, 4-64
 - TASK, *Error Logging*, 4-3, 4-62
- SUBPACKET declaration
 - user-written module, *Error Logging*, 4-29
- SUBPACKET statement
 - CFL, *Error Logging*, 5-28
- Subpartition
 - See Partition
- Subroutine, *Introduction*, 5-9
 - calling, *Indirect*, 2-64
 - high-level language, *Executive*, 1-9
 - error conditions, *Executive*, 1-18
 - optional arguments, *Executive*, 1-11
 - specifying task names, *Executive*, 1-11
 - returning from, *Indirect*, 2-86
- Subroutine linkage
 - K-series, *I/O Drivers*, 13-28
 - standard MACRO-11 (LADRV), *I/O Drivers*, 12-23
- SUBSTITUTE command
 - EDT editor, *Introduction*, 2-18
- Substitution format control string, *Indirect*, 2-31
- Substitution mode, *Indirect*, 1-3, 2-54
 - ICP, *Introduction*, 4-3
- Substring
 - searching, *Indirect*, 2-92
- Substring extraction unary suffix operator
 - CFL expression, *Error Logging*, 5-10
- Subtraction binary operator
 - CFL expression, *Error Logging*, 5-14
- Subtraction operator
 - summary, *MACRO-11*, 2-4
- Success
 - handler, *RMS-11 Macro*, 2-18
- SUM block, *RMS-11 Intro*, 4-8
 - chaining to FAB, *RMS-11 Macro*, 2-13
 - declaring, *RMS-11 Macro*, 2-9
 - initializing, *RMS-11 Macro*, 2-10
 - summary, *RMS-11 Macro*, 6-145
- Summary listing
 - RMSBCK utility, *RMS-11 Utilities*, 6-10
 - RMSCNV utility, *RMS-11 Utilities*, 4-12
 - RMSRST utility, *RMS-11 Utilities*, 7-12
- Summary report
 - generated by PRINTSUMMARY, *System Management*, 12-42
 - RPT, *Error Logging*, 3-21 to 3-23
 - See also /SUMMARY switch
- /SUMMARY switch
 - RPT, *Error Logging*, 3-5, 3-21
 - See also /STATISTICS qualifier
 - arguments, *Error Logging*, 3-5, 3-21, 3-23
 - processing, *Error Logging*, 4-4
- SUMMARYTIME command
 - IOX, *System Management*, 12-56
 - initial default, *System Management*, 12-56
 - suppressing interval reports, *System Management*, 12-56
- Summary XAB
 - See SUM block
- SUPERSEDE
 - RMSDES utility, *RMS-11 Utilities*, 2-35
- /SUPERSEDE qualifier
 - BRU utility, *Utilities*, 3-24
- Supersession
 - RMSBCK utility, *RMS-11 Utilities*, 6-7
 - RMSCNV utility, *RMS-11 Utilities*, 4-7, 4-13
 - RMSDEF utility, *RMS-11 Utilities*, A-7
 - RMSRST utility, *RMS-11 Utilities*, 7-8
- Supervisor Call directive, *Executive*, 5-213
- Supervisor mode, *Debugging*, 1-4, 3-2; *Task Builder*, 2-24
 - library routine, *Executive*, 3-1
 - calling, *Executive*, 5-213
 - mapping in, *Task Builder*, 2-25
 - switching, *Task Builder*, 8-7
 - switching vector, *Task Builder*, 8-1
 - user-written, *Task Builder*, 8-25
- Supervisor-mode library, *Debugging*, 1-4; *Task Builder*, 2-24, 8-1
 - See also CSM library
 - accessing, *Task Builder*, 12-31, 12-36
 - building, *Task Builder*, 8-4, 8-7
 - command, *Debugging*, 2-10
 - contents, *Task Builder*, 8-2
 - data, *Task Builder*, 8-4
 - debugging, *Debugging*, 1-4
 - I- and D-space, *Task Builder*, 8-4
 - installing READ/WRITE access, *Debugging*, 1-4
 - linking, *Task Builder*, 8-4, 8-24
 - multiple, *Task Builder*, 8-24
 - overlaid, *Task Builder*, 8-25
 - resident library, *Task Builder*, 8-24
 - setting, *Debugging*, 2-10
 - switching vector, *Task Builder*, 8-1

- Supervisor-mode library
 - switching vector (cont'd.)
 - user-written, *Task Builder*, 8-25
 - SYSGEN question, *System Generation*, 3-25
- SUPLIB option, *Task Builder*, 12-36
- Supplied system tasks
 - rebuilding, *System Generation*, 4-11
 - SYSGEN question, *System Generation*, 3-78
 - types, *System Generation*, 3-76
- Support routine
 - feature list (K-series), *I/O Drivers*, 13-3
 - generation (K-series), *I/O Drivers*, 13-4 to 13-5
 - interface (K-series), *I/O Drivers*, 13-6
 - invoking (K-series), *I/O Drivers*, 13-28
 - MACRO-11 (LADRV), *I/O Drivers*, 12-23
 - program use (K-series), *I/O Drivers*, 13-5 to 13-6
 - use (K-series), *I/O Drivers*, 13-4
- Suspend directive, *Executive*, 5-238
- /SU subswitch
 - PIP utility, *Utilities*, 12-37
- /SU switch
 - RMSBCK utility, *RMS-11 Utilities*, 6-7
 - RMSCNV utility, *RMS-11 Utilities*, 4-5, 4-7, 4-13, 4-15
 - RMSRST utility, *RMS-11 Utilities*, 7-8
- SVBD\$ directive
 - DEBUG command, *MCR*, 3-49
- SVDB\$ directive, *Executive*, 5-277
- SVTK\$ directive, *Executive*, 5-279
- Sw1 parameter
 - device-specific function (VTDRV), *I/O Drivers*, 3-4
 - IO.STC function (VTDRV), *I/O Drivers*, 3-6
- Sw2 parameter
 - device-specific function (VTDRV), *I/O Drivers*, 3-3
 - IO.STC function (VTDRV), *I/O Drivers*, 3-6
- Swapping
 - definition, *System Management*, 1-4
- Sweep
 - initiating A/D synchronous (K-series), *I/O Drivers*, 13-8
 - stopping (K-series), *I/O Drivers*, 13-26
- Switch
 - analysis, *Crash Dump Analyzer*, 2-3 to 2-7
 - RMSBCK utility, *RMS-11 Utilities*, 6-4 to 6-5
 - RMSCNV utility, *RMS-11 Utilities*, 4-5, 4-7

- Switch (cont'd.)
 - RMSDSP utility, *RMS-11 Utilities*, 5-3 to 5-4
 - RMSIFL utility, *RMS-11 Utilities*, 3-3, 3-5
 - RMSRST utility, *RMS-11 Utilities*, 7-3
 - TKB, *Task Builder*, 10-1 to 10-56
 - See also individual switch entries
 - summary, *Task Builder*, 10-2 to 10-5
 - syntax, *Task Builder*, 10-1
- SWITCH command, *System Management*, 4-31
 - example, *System Management*, 4-31
 - format, *System Management*, 4-31
- Switches, *Indirect*, 2-33 to 2-35
 - function, *Crash Dump Analyzer*, 2-7 to 2-10
- Switching access modes, *RMS-11 Intro*, 3-13
- Switch-logging-file operation
 - subpacket information, *Error Logging*, 4-65
- SWITCH REGISTER command, *MCR*, 3-201
 - brief description, *MCR*, 1-7
 - examples, *MCR*, 3-201
 - formats, *MCR*, 3-201
 - keywords
 - /CLE, *MCR*, 3-201
 - /DIS, *MCR*, 3-201
 - /SET, *MCR*, 3-201
 - parameters, *MCR*, 3-201
- Switch State directive, *Executive*, 5-281
- Switch string
 - user-defined, *Error Logging*, 3-26
- /SWITCH switch
 - ELI, *Error Logging*, 2-11
 - See also /NEW_LOG_FILE qualifier
 - New Version subswitch, *Error Logging*, 2-11
- /SWPC keyword
 - SET command, *MCR*, 3-185
 - SET command (VMR), *System Management*, 5-67
- /SWPR keyword
 - SET command, *MCR*, 3-185
 - SET command (VMR), *System Management*, 5-67
- SWR command
 - See SWITCH REGISTER command
- SWST\$ directive, *Executive*, 5-281
- SY device
 - as default device name, *MCR*, 2-5
 - assigning logical name to, *MCR*, 3-67
 - default logical device, *MCR*, 3-67
 - logical name default, *MCR*, 3-163

SY device (cont'd.)

- pseudo device, MCR, 2-10
- system default for file specification, MCR, 2-6
- user device logical, MCR, 3-14
- <SYDISK> symbol, *Indirect*, 2-25
- SYM argument
 - for .LIST/.NLIST, MACRO-11, 5-8
- Symbol, RMS-11 *Intro*, 4-7; *Indirect*, 1-3
 - assumed value of undefined, MACRO-11, 2-14
 - code and mask, RMS-11 *Intro*, 4-7
 - component of a term, MACRO-11, 2-13
 - cross-reference, *Program Development*, 3-7
 - defining, *Indirect*, 2-4
 - deleting definition, *Indirect*, 2-59
 - displaying, *Indirect*, 2-104
 - field-offset, RMS-11 *Intro*, 4-7
 - global, *Program Development*, 1-5;
Introduction, 5-6, 5-10
 - See also Global symbol
 - entry point, *Program Development*, 1-5
 - resolution, *Program Development*, 1-5, 4-2
 - resolving, *Task Builder*, 3-18
 - TKB, *Program Development*, 1-5
- local, *Program Development*, 1-4, 1-5, 2-7;
Introduction, 5-6
 - defining (TTDRV), *I/O Drivers*, 2-36
 - definition, *Program Development*, 2-7
 - obtaining, *I/O Drivers*, 1-7
- macro
 - definition, *Program Development*, 1-4, 1-10, 2-6, 6-4
 - rules, MACRO-11, 2-5
- MACRO-11 evaluation, *Program Development*, 1-5, 3-1, 3-2
- Memory display (RMD), *System Management*, 7-7
- order of symbol table searches, MACRO-11, 2-6
- permanent, MACRO-11, 2-5
 - overriding with .MCALL, MACRO-11, 6-21
- resolving, *Task Builder*, 3-28
- substituting, *Indirect*, 2-31, 2-54
- TKB, DCL, 6-7
- types of, MACRO-11, 2-4
- undefined
 - assumed value, MACRO-11, 2-14
 - resolving, *Task Builder*, 10-22, 11-33
- user-defined, MACRO-11, 2-5

Symbol

- user-defined (cont'd.)
 - rules, MACRO-11, 2-5
 - using, *Indirect*, 2-9
- /SYMBOL_TABLE qualifier, *Task Builder*, 11-65
- Symbol control directive, MACRO-11, 5-42
- Symbol definition file, *Task Builder*, 5-6 to 5-7
 - absolute shared region, *Task Builder*, 5-11
 - contents, *Task Builder*, 5-6, 5-15
 - excluding global symbol, *Task Builder*, 12-21
- I- and D-space task, *Task Builder*, 7-10
- overlaid shared region, *Task Builder*, 5-14
- relationship to system image file, *System Management*, 5-2
- specifying, *System Management*, 5-2; *Task Builder*, 11-65
- use of /CO/LI/PI switch, *Task Builder*, 5-6
- VMR requirements, *System Management*, 5-2
- Symbolic offset, *Executive*, 1-8
 - establishing, *Task Builder*, 5-19
 - usage, *Writing I/O Driver*, 4-2
- Symbol name, *Indirect*, 2-9
- Symbol table, *Indirect*, 2-4, 2-31
 - excluding global symbol, *Task Builder*, 11-34
 - including global symbol, *Task Builder*, 10-51, 11-57
 - permanent symbols, MACRO-11, C-1
 - storing, *Task Builder*, F-2 to F-5
- Symbol table file, MCR, 3-105
 - for device driver
 - location of, MCR, 3-105
- Symbol type, *Indirect*, 2-9
 - defining, *Indirect*, 2-9
 - logical, *Indirect*, 2-9
 - numeric, *Indirect*, 2-9
 - string, *Indirect*, 2-9
- #symbol variable, XDT, 2-10
 - list, XDT, B-1
- <SYMTYP> symbol, *Indirect*, 2-19
- Synchronous operation, RMS-11 *User's Guide*, 8-2
- Synchronous system trap
 - See SST
- Synchronous trap, *I/O Drivers*, 1-10
- /SYNC keyword
 - INS command (VMR), *System Management*, 5-25

/SYNC keyword (cont'd.)

INSTALL command, MCR, 3-99

Syntax, *Introduction*, 1-14

VMR, *System Management*, 5-4

abbreviating commands, *System Management*, 5-4

command line format, *System Management*, 5-4

command names, *System Management*, 5-4

Syntax element

attributes, *System Management*, 18-27

defining, *I/O Operations*, 7-2

Syntax state table, *I/O Operations*, 7-7

/-SYS, *Crash Dump Analyzer*, 2-4, 2-7

SYS\$LOGIN

user directory logical, MCR, 3-14

<SYSDEV> symbol, *Indirect*, 2-25

SYSGEN

See also Pregenerated kit

abnormal exit, *System Generation*, 3-6

Autoconfigure, *System Generation*, 3-6

baseline system, *System Generation*, 3-12

changing system, *System Generation*, 4-9

compared to system generation, *System Generation*, 1-1

definition, *System Generation*, 1-4

error message, *System Generation*, 3-3

error recovery, *System Generation*, 3-3

features, *System Generation*, 1-4

help paragraph, *System Generation*, 3-3

invoking, *System Generation*, 3-14

making changes, *System Generation*, 3-4

media requirement, *System Generation*, 2-2

preparation, *System Generation*, 2-1

processor support, *System Generation*, 3-23

question

example, *System Generation*, 3-2

format, *System Generation*, 3-1

number format, *System Generation*, 3-1

prompt format, *System Generation*, 3-2

sections, *System Generation*, 3-15

restarting, *System Generation*, 3-20

saved answer file, *System Generation*, 3-5

sections, *System Generation*, 1-5 to 1-7

Adding a Device, *System Generation*, 4-10

Assembling the Executive and Drivers, *System Generation*, 3-70 to 3-71

Building the Executive and Drivers, *System Generation*, 3-72 to 3-73

SYSGEN

sections (cont'd.)

Building the Privileged Task, *System Generation*, 3-74 to 3-75

Choosing Executive Options, *System Generation*, 3-22 to 3-34

Choosing Peripheral Configuration, *System Generation*, 3-35 to 3-69

Choosing SYSGEN Options, *System Generation*, 3-16 to 3-21

Creating System Image File, *System Generation*, 3-81 to 3-83

Rebuilding the Supplied System Tasks, *System Generation*, 3-76 to 3-80

system

setting up, *System Generation*, 4-4 to 4-7

terms defined, *System Generation*, 1-7 to 1-13

SYSGEN question

accounting, *System Generation*, 3-28

alternate CLI, *System Generation*, 3-28

assembling listings Executive, *System Generation*, 3-71

Autoconfigure, *System Generation*, 3-6, 3-19

overriding, *System Generation*, 3-9, 3-19

batch processor, *System Generation*, 3-28

character translation, *System Generation*, 3-30

CLI alternate, *System Generation*, 3-28

CM/CR11 card reader, *System Generation*, 3-47

communications device, *System Generation*, 3-65

communications support, *System Generation*, 3-27

console driver, *System Generation*, 3-28

controllers

DECTape II, *System Generation*, 3-51

DEUNA, *System Generation*, 3-68

MSCP-type controller, *System Generation*, 3-45

RH-type, *System Generation*, 3-36

RK11, *System Generation*, 3-41

RK611/711, *System Generation*, 3-42

RL11/RLV11, *System Generation*, 3-43

RP11, *System Generation*, 3-44

RX11, *System Generation*, 3-50

RX211/RXV21, *System Generation*, 3-50

SYSGEN question

controllers (cont'd.)

TC11 DECTape, *System Generation*, 3-49

TM/TMA/TMB11, *System Generation*, 3-54

TMSCP-type, *System Generation*, 3-47

TU58, *System Generation*, 3-51

crash dump device, *System Generation*, 3-32

CTRL/C abort support, *System Generation*, 3-29

DCL, *System Generation*, 3-28

decimal version numbers, *System Generation*, 3-29

default buffer, *System Generation*, 3-30

default response, *System Generation*, 3-2

device

LA-type, *System Generation*, 3-56

MU-type, *System Generation*, 3-47

dial-up line, *System Generation*, 3-58

baud rate, *System Generation*, 3-58, 3-64

modem support, *System Generation*, 3-63

disks

DB-type, *System Generation*, 3-37

DK-type, *System Generation*, 3-41

DL-type, *System Generation*, 3-43

DM-type, *System Generation*, 3-42

DP-type, *System Generation*, 3-44

DR-type, *System Generation*, 3-38

DS-type, *System Generation*, 3-38

DU-type, *System Generation*, 3-45

DY-type, *System Generation*, 3-51

EM-type, *System Generation*, 3-39

ML11, *System Generation*, 3-39

MSCP, *System Generation*, 3-45

RA60/80/81, *System Generation*, 3-45

RC25, *System Generation*, 3-45

RD51/52/53, *System Generation*, 3-45

RK05, *System Generation*, 3-41

RK05F, *System Generation*, 3-41

RK06/07, *System Generation*, 3-42

RL01/RL02, *System Generation*, 3-43

RM02/03/05/80, *System Generation*, 3-38

RP02/RPR02/RP03, *System Generation*, 3-44

RP04/05/06, *System Generation*, 3-37

RP07, *System Generation*, 3-38

RS03/04, *System Generation*, 3-38

SYSGEN question

disks (cont'd.)

RX02, *System Generation*, 3-51

RX50, *System Generation*, 3-45

driver

user-supplied, *System Generation*, 3-68

Executive data space, *System Generation*, 3-24

F11ACP, *System Generation*, 3-29

fast-mapping facility, *System Generation*, 3-26

FCSRES library, *System Generation*, 3-26

file window in secondary pool, *System Generation*, 3-29

Full-functionality Executive, *System Generation*, 3-23

help paragraph, *System Generation*, 3-3

ICB

pool size, *System Generation*, 3-26

interrupt vector

highest address, *System Generation*, 3-69

IP11 industrial I/O subsystem, *System Generation*, 3-31

IP11 powerfail support, *System Generation*, 3-31

line frequency, *System Generation*, 3-34

line interface

DL11/DLV11, *System Generation*, 3-56

DM11-BB, *System Generation*, 3-59

DMC11, *System Generation*, 3-66

DMR11, *System Generation*, 3-66

DUP11, *System Generation*, 3-67

TT-type, *System Generation*, 3-57

line printer

LA180 controller, *System Generation*, 3-52

LP11 controller, *System Generation*, 3-52

LP-type, *System Generation*, 3-52

LS11 controller, *System Generation*, 3-52

LV11 controller, *System Generation*, 3-52

loadable driver, *System Generation*, 3-26

logical name support, *System Generation*, 3-25

LPA11-K laboratory subsystem, *System Generation*, 3-56

LP-type line printer, *System Generation*, 3-52

SYSGEN question (cont'd.)

magnetic tape

- DD-type, *System Generation*, 3-51
- MM-type, *System Generation*, 3-39
- MS-type, *System Generation*, 3-49
- MT-type, *System Generation*, 3-54
- TA11 cassette, *System Generation*, 3-48
- TE16, *System Generation*, 3-39
- TK25, *System Generation*, 3-49
- TK50, *System Generation*, 3-47
- TS11, *System Generation*, 3-49
- TSV05, *System Generation*, 3-49
- TU16/45/77, *System Generation*, 3-39
- TU80, *System Generation*, 3-49
- TU81, *System Generation*, 3-47

magnetic tape formatter

- TM02/03, *System Generation*, 3-39

mixed MASSBUS, *System Generation*, 3-36

moving old system, *System Generation*, 3-73

multiplexer

- CXA16/CXB16/CXY08, *System Generation*, 3-60
- DH11, *System Generation*, 3-58
- DHU11/DHV11/DHQ11, *System Generation*, 3-60
- DJ11, *System Generation*, 3-62
- DZ11/DZQ11/DZV11, *System Generation*, 3-63

paper tape

- PR11 reader, *System Generation*, 3-55

PC11 paper tape reader/punch, *System Generation*, 3-54

PCL11 receiver/transmitter, *System Generation*, 3-65

PREPGEN, *System Generation*, 3-6, 3-18

print explanation, *System Generation*, 3-17

processor

- floating point, *System Generation*, 3-33
- memory size, *System Generation*, 3-33

Queue Manager, *System Generation*, 3-28

saved answer file, *System Generation*, 3-17, 3-18

Shadow Recording, *System Generation*, 3-27

supervisor-mode library, *System Generation*, 3-25

system clock, *System Generation*, 3-33

system name, *System Generation*, 3-27

target processor type, *System Generation*, 3-23

target system disk, *System Generation*, 3-18

SYSGEN question (cont'd.)

task

- supplied system, *System Generation*, 3-78

task header

- out-of-pool, *System Generation*, 3-25

terminals

- YH-type, *System Generation*, 3-59
- YJ-type, *System Generation*, 3-63
- YV-type, *System Generation*, 3-61
- YZ-type, *System Generation*, 3-64

terminal support, *System Generation*, 3-57

UMR, *System Generation*, 3-56

unsolicited input timeout, *System Generation*, 3-31

user data space, *System Generation*, 3-25

virtual terminal, *System Generation*, 3-30

XDT, *System Generation*, 3-31

<SYSID> symbol, *Indirect*, 2-25

SYSLIB

See System library

SYSLIB.OLB (System Macro Library), *Program Development*, 1-11

SYSLOGIN.CMD file

- function, *System Management*, 1-10

- pregenerated kit, *System Generation*, 5-37

SYSLOGOUT.CMD file

- function, *System Management*, 1-10

- pregenerated kit, *System Generation*, 5-39

SYSLOG task

- interaction with \$QTRAN, *System Management*, 10-19

- interaction with \$QTRN1, *System Management*, 10-20

- interaction with \$QTRN2, *System Management*, 10-21

SYSPARAM.DAT configuration data file

- definition, *System Management*, 1-10

- setting up QMG, *System Management*, 3-2

SYSPAR partition

- description, *System Management*, 7-7

SYSTB.MAC file, *Writing I/O Driver*, 1-23

System

- bootstrapping, MCR, 3-30

- restrictions, MCR, 3-31

- unsaved system, MCR, 3-31

- valid device, MCR, 3-30

bootstrapping with XDT

- unsaved system, MCR, 3-31

checkpoint file, MCR, 3-6

device

- switches, *Crash Dump Analyzer*, 2-6

System (cont'd.)

- directive, *Program Development*, 1-10
- directory
 - as default for INSTALL command, MCR, 3-95
 - as default for RUN command, MCR, 3-142
- displaying parameters, DCL, 8-8 to 8-9
- failure
 - causes, *System Management*, 1-16
 - determining cause, *System Management*, 1-17, 11-4
 - recovery from, *System Management*, 1-16, 11-4
- files for management, *System Management*, 1-10
- halt, *System Management*, 11-6
- I/O database
 - main thread through, *Writing I/O Driver*, 2-1, 2-3
- identification, MCR, 3-67
- image file, *System Management*, 8-18
 - location, MCR, 3-147
 - saving, MCR, 3-147; *System Management*, 8-18
 - devices, MCR, 3-147
 - size, MCR, 3-147; *System Management*, 8-18
 - transporting, MCR, 3-30, 3-150
- information, *Crash Dump Analyzer*, 3-1
 - switch
 - See /-SYS
- installing, *System Management*, 1-9
- library
 - contributions (in map), *Program Development*, 4-7
- macro call, *Writing I/O Driver*, 4-5
- mapped
 - See Mapped system
- memory management, *Task Builder*, 11-47
 - specifying, *Task Builder*, 10-30
- object library, *I/O Drivers*, 1-37
- object module library, *I/O Drivers*, 1-8
- overhead (TTDRV), *I/O Drivers*, 2-16, 2-30, 2-42
- performance
 - stall I/O (disk driver), *I/O Drivers*, 4-12
- pool
 - dump, *Crash Dump Analyzer*, 3-36
 - switch
 - See /POOL

System (cont'd.)

- power failure
 - recovery from (UNIBUS switch driver), *I/O Drivers*, 14-7
- putting more than one on same volume, *System Generation*, 4-12
- reconfiguration, *System Management*, 4-1
- recovery methods, *System Management*, 11-4
- saved
 - installing task, MCR, 3-94; *System Management*, 5-26
- saving, MCR, 3-147
- setting parameters, DCL, 8-5 to 8-7
- setting up, *System Management*, 1-9
- shutdown
 - See also SHUTUP program
 - using the SHUTUP program, *System Management*, 1-12
- shutting down, *System Management*, 6-4
- stack, *Writing I/O Driver*, 6-11
- statistics
 - Resource Accounting, *System Management*, 10-6
- task, *Program Development*, 1-1
- UFD defaults, *System Management*, A-2
- UIC, MCR, 2-3
 - setting default, MCR, 3-185
- unsaved
 - installing task, MCR, 3-94; *System Management*, 5-20
- <SYSTEM> symbol, *Indirect*, 2-19
- /SYSTEM_LIBRARY_DISPLAY qualifier, *Task Builder*, 11-66
- LINK command, *Program Development*, 4-7
- SYSTEM_STATISTICS parameter
 - START/ACCOUNTING command, *System Management*, 10-6
- System Account Block
 - See SAB
- System characteristic
 - subpacket information, *Error Logging*, 4-61
- System clock
 - SYSGEN question, *System Generation*, 3-33
- System common, *Crash Dump Analyzer*, 3-5
 - active task, *Crash Dump Analyzer*, 3-6
 - alphabetized dump, *Crash Dump Analyzer*, 3-1, 3-10
 - boot device, *Crash Dump Analyzer*, 3-6
 - dump
 - See System common dump

System common (cont'd.)

- labels, *Crash Dump Analyzer*, 3-10 to 3-11
- network UIC, *Crash Dump Analyzer*, 3-6
- partition address, *Crash Dump Analyzer*, 3-6
- stack depth, *Crash Dump Analyzer*, 3-6
- stack depth indicator, *Crash Dump Analyzer*, 4-2
- system size, *Crash Dump Analyzer*, 3-6
- TCB address, *Crash Dump Analyzer*, 3-6
- UIC, *Crash Dump Analyzer*, 3-6
- System common dump, *Crash Dump Analyzer*, 3-1, 3-10 to 3-11
- System control information code
 - event-level dispatching, *Error Logging*, 4-16
- System-crash event
 - subpacket information, *Error Logging*, 4-67
- System device
 - See SY device
- System directory, *DCL*, 7-28 to 7-31, 8-10
- System disk
 - RMSBCK utility, *RMS-11 Utilities*, 6-1
 - RMSRST utility, *RMS-11 Utilities*, 7-1
- System failure, *DCL*, 9-2 to 9-3
- System fault
 - definition, *System Management*, 11-1
 - recovery from, *System Management*, 11-4
- System file names
 - conventions, *System Management*, A-3
- System generation
 - definition, *System Generation*, 1-1
 - flow, *System Generation*, 1-2 to 1-4
 - glossary, *System Generation*, 1-7 to 1-13
 - incorporating a driver, *Writing I/O Driver*, 5-1
 - option (TTDRV), *I/O Drivers*, 2-20
- System image
 - description, *System Generation*, 5-5
- System image file, *MCR*, 3-147; *System Generation*, 3-81
 - assigning SY and LB, *System Management*, 5-2
 - bootstrap, *System Management*, 5-1
 - relationship to symbol definition file, *System Management*, 5-2
- /SYSTEM keyword
 - ASN command (VMR), *System Management*, 5-9, 5-10
 - ASSIGN command, *MCR*, 3-19, 3-21
 - DEFINE LOGICALS command, *MCR*, 3-56, 3-57
- System library, *Task Builder*, 2-8

System library (cont'd.)

- macro (RSXMAC.SML), *Program Development*, 1-10
- searching
 - macro, *Program Development*, 2-6
 - macro (RSXMAC.SML), *Program Development*, 1-10
 - object (SYSLIB.OLB), *Program Development*, 4-2
- System library device
 - See LB device
- System logical assignment, *MCR*, 3-14
- System login command file
 - See SYSLOGIN.CMD file
- System logout command file
 - See SYSLOGOUT.CMD file
- System Macro Library, *Executive*, 1-4; *I/O Drivers*, 1-4
- System maintenance commands, *MCR*, 1-7
- System-message event
 - subpacket information, *Error Logging*, 4-68
- System name
 - SYSGEN question, *System Generation*, 3-27
- System option
 - feature symbols, *Executive*, 5-93
 - testing, *Executive*, 5-93
- System parameter
 - changing after SYSGEN, *System Generation*, 4-9
- System-required files, *System Generation*, 4-4
- System Service Message
 - See SSM command
- SYSTEM SERVICE MESSAGE command,
 - MCR*, 3-200
 - brief description, *MCR*, 1-7
 - example, *MCR*, 3-200
 - format, *MCR*, 3-200
- System setup
 - after SYSGEN, *System Generation*, 4-4 to 4-7
- System startup command file
 - See STARTUP.CMD file
- System-state
 - register convention, *Writing I/O Driver*, 7-1
- System Statistics display
 - RMD
 - altering from MCR command line, *System Management*, 7-19
 - altering from setup page, *System Management*, 7-19

- System Statistics display
 - RMD (cont'd.)
 - contents, *System Management*, 7-18
 - description, *System Management*, 7-18
 - example, *System Management*, 7-18
- System status
 - displaying, *DCL*, 8-14 to 8-17
- System task
 - spawning, *Executive*, 4-4
- System Task Directory, *MCR*, 1-4, 3-94, 3-148
 - See also *STD*
 - installing task, *MCR*, 2-21
 - installing task in, *MCR*, 3-139
 - removing task, *MCR*, 3-135
- System time
 - setting, *Executive*, 5-268
- System Time Change Transaction Block, *System Management*, 10-45
- System Trap, *Executive*, 2-5; *XTD*, 1-5
 - <SYSUIC> symbol, *Indirect*, 2-25
- /SYSUIC keyword
 - SET command, *MCR*, 3-185
 - SET command (VMR), *System Management*, 5-67
- SYSVMR.CMD file
 - definition, *System Generation*, 3-82
 - function, *System Management*, 1-10
 - <SYTYP> symbol, *Indirect*, 2-25
 - <SYUNIT> symbol, *Indirect*, 2-19
- /SZ switch
 - LBR utility, *Utilities*, 10-30

T

- TAB
 - description, *System Management*, 10-23
 - Resource Accounting, *System Management*, 10-23
- Tab, *DCL*, 3-22
 - ignoring in command line, *I/O Operations*, 7-8
 - in macro argument, *MACRO-11*, 6-7
 - special character in *MACRO-11*, *MACRO-11*, 2-1
 - terminates operator field, *MACRO-11*, 1-3
 - used in operand field, *MACRO-11*, 1-4
 - vertical, *DCL*, 3-22
- Tab character
 - TTDRV, *I/O Drivers*, 2-70
 - vertical, *I/O Drivers*, 2-70
- TAB key, *Introduction*, 5-9

Table

- CFL, *Error Logging*, 5-36, 5-37, 5-38
- RPT, *Error Logging*, 5-36
 - See also *TABLE* statement
- storing, *Task Builder*, F-2 to F-6
- Table Driven Parser
 - See *TPARS*
- Table of contents
 - generated by *.SBTTL*, *MACRO-11*, 5-10
- Table parameter
 - TTDRV
 - general, *I/O Drivers*, 2-13
 - IO.RTT function, *I/O Drivers*, 2-48
- TABLE statement
 - CFL, *Error Logging*, 5-36
- Tab On/Off command
 - EDI editor, *Utilities*, 7-38
- /TAL, *Crash Dump Analyzer*, 2-4, 2-7
- TAL command
 - See also *TASKLIST-ATL* command
 - secondary pool usage, *System Management*, 8-17

Tape

- See also *Magnetic tape* or *DECtape*
- ANSI file structure, *I/O Operations*, 5-1
- backing up, *Utilities*, 3-1
- comparing, *Utilities*, 6-13
- control task, *I/O Operations*, G-9
- conventional backup, *Utilities*, 3-3
- copying, *Utilities*, 3-1
- data format, *I/O Operations*, 1-8
- density, *I/O Drivers*, 6-9
- end-of-file label, *I/O Operations*, G-8
- end-of-volume label, *I/O Operations*, G-8
- exercising with *IOX*, *System Management*, 12-2
- file header block, *I/O Operations*, G-9
- file processing, *I/O Operations*, 5-5
- file structure, *I/O Operations*, G-8
- fixed-length records, *I/O Operations*, 1-8
- formatting, *Utilities*, 8-4
- full backup, *Utilities*, 3-4
- handling end-of-tape, *I/O Operations*, G-9
- mounting, *Utilities*, 3-2; *RMS-11 Utilities*, 5-3
- nolabel
 - block size (tape driver), *I/O Drivers*, 6-17
- owner ID field, *I/O Operations*, G-2
- position (DDDRV), *I/O Drivers*, 5-4
- positioning, *I/O Operations*, G-16

Tape (cont'd.)

- position to next file, *I/O Operations*, 5-6
- power failure affecting, *I/O Drivers*, 1-42
- processing example, *I/O Operations*, 5-8
- record format, *I/O Operations*, 5-5
- restoring, *Utilities*, 3-1
- selective backup, *Utilities*, 3-4
- setting block size, *Utilities*, 12-9
- transferring data, *Utilities*, 6-19
- translation, *I/O Operations*, G-17
- unlabeled, *I/O Operations*, G-15
 - block size, *I/O Operations*, G-15
- user file label, *I/O Operations*, G-8
- user volume label, *I/O Operations*, G-3
- variable-length record, *I/O Operations*, 1-8
- verifying, *Utilities*, 14-1
- volume access, *I/O Operations*, 5-5
- volume label, *I/O Operations*, G-1
- /TAPE_LABEL qualifier
 - BRU utility, *Utilities*, 3-24
- Tape density switch
 - See /DENS
- Tape drive
 - MM-type
 - SYSGEN question, *System Generation*, 3-39
 - TE16
 - SYSGEN question, *System Generation*, 3-39
 - TU16/45/77
 - SYSGEN question, *System Generation*, 3-39
- Tape driver, *I/O Drivers*, 6-1
 - consecutive tape mark, *I/O Drivers*, 6-16
 - data security
 - erase, *I/O Drivers*, 6-8
 - device characteristic, *I/O Drivers*, 6-1
 - programming hint, *I/O Drivers*, 6-14
 - resetting transport status, *I/O Drivers*, 6-16
 - rewinding, *I/O Drivers*, 6-8
 - unloading, *I/O Drivers*, 6-8
- Tape file
 - attributes
 - specifying, *I/O Operations*, G-16
 - header label, *I/O Operations*, G-4
 - HDR1, *I/O Operations*, G-4
 - HDR2, *I/O Operations*, G-5
 - HDR3, *I/O Operations*, G-5
 - identifier processing, *I/O Operations*, G-7
 - label, *I/O Operations*, G-1
- Tape Mass Storage Control Protocol
 - See TMSCP

Tape position

- file open, *I/O Operations*, 2-15

Tape read function

- indirect command file, *I/O Operations*, G-19

Tape standard

- ANSI, *I/O Operations*, G-1

TARGET

- RMSDES utility, *RMS-11 Utilities*, 2-30

Target system, Task Builder, C-1

- definition, *System Generation*, 1-12

disk

- definition, *System Generation*, 2-2
- SYSGEN question, *System Generation*, 3-18

- types, *System Generation*, 2-2

/TAS, Crash Dump Analyzer, 2-4, 2-7

TAS command

- See also TASKLIST command

VMR

- definition, *System Management*, 5-76
- display contents, *System Management*, 5-76

- examples, *System Management*, 5-76 to 5-77

- format, *System Management*, 5-76

- parameter, *System Management*, 5-76

/TASK, Crash Dump Analyzer, 2-4, 2-7

Task, DCL, 7-1; Introduction, 5-1, 5-2

- abort, *Program Development*, 4-8

abortable

- requirements, *System Management*, 8-7
- selecting, *System Management*, 8-7

aborted, MCR, 3-210

- aborting, *Executive*, 5-10, 5-255; MCR, 3-2; DCL, 7-17 to 7-20

- CRDRV, *I/O Drivers*, 9-9

- LPDRV, *I/O Drivers*, 7-7

- tape driver, *I/O Drivers*, 6-15

access rights, MCR, 2-18

- access to commons, *System Management*, 5-24

activating, Executive, 5-195

- active, MCR, 2-21; DCL, 7-1 to 7-2; *Introduction*, 6-5

- displaying, MCR, 3-8, 3-24, 3-203; DCL, 7-53 to 7-59

- dynamic display, DCL, 7-63 to 7-67

address, Task Builder, 2-12

space

- allocating, MCR, 3-143

addressing, Executive, 3-1

Task (cont'd.)

- address windows
 - declaring number of, *Task Builder*, 12-45
- after exit, *System Management*, 5-80
- allocating checkpoint space, *System Management*, 1-5
- altering running priority, *MCR*, 3-2
- attached, *MCR*, 2-14, 2-18
- Autoconfigure, *System Generation*, 5-33; *System Management*, 4-1
- base priority
 - setting, *System Management*, 8-10
- blocked, *I/O Drivers*, 1-10; *MCR*, 2-19
 - effective priority, *MCR*, 3-29
 - unblocking, *MCR*, 3-210
- blocking, *Executive*, 5-309, 5-311; *DCL*, 7-24 to 7-25
- breakpoints
 - setting, *Program Development*, 5-6
- building, *Program Development*, 4-1, 7-5
 - See also TKB
 - compatibility mode, *Task Builder*, 10-9, 11-22
 - default partition, *MCR*, 3-97
 - determining default for /XHR keyword, *MCR*, 3-100
 - using external headers, *MCR*, 3-101
- canceling, *MCR*, 3-38
- canceling time-synchronized requests, *Executive*, 5-62
- chaining, *Executive*, 4-2, 5-225
- changing
 - priority, *Executive*, 5-15
 - size, *Executive*, 5-91
 - state, *Executive*, 1-20, 1-22
- checkpoint (VTDRV), *I/O Drivers*, 3-5
- checkpointability
 - disabling, *Executive*, 5-70
 - enabling, *Executive*, 5-84
- checkpointable, *System Management*, 5-19
 - effect of fixing in memory, *MCR*, 3-63
 - installing, *MCR*, 3-95
 - running, *MCR*, 3-143
 - specifying, *Task Builder*, 10-6, 10-11, 11-12, 11-13
 - status bit for, *MCR*, 3-24
- checkpoint area, *Task Builder*, B-12
- checkpointing, *MCR*, 3-26, 3-96; *System Management*, 1-3, 5-21; *Writing I/O Driver*, 1-16
- definition of, *MCR*, 2-19

Task (cont'd.)

- CLI
 - removing, *MCR*, 3-135
- common
 - installing, *MCR*, 3-98, 3-144
- common region
 - mapping count, *MCR*, 3-40
 - synchronizing, *MCR*, 3-99
- completion routine, *Task Builder*, 12-11
- connecting, *Executive*, 4-1, 5-222, 5-304
- continuing, *DCL*, 7-21 to 7-22
- correcting, *Program Development*, 4-8
- CPU affinity
 - removing, *Executive*, 5-190
- creating, *MCR*, 2-19
- creating image, *Program Development*, 1-6
- cross-referencing, *Task Builder*, 4-13
- data space, *Task Builder*, 7-1
- debugging, *Executive*, 5-277; *MCR*, 3-49; *Program Development*, 4-8, 7-6, 7-7, 7-8
- debugging aid
 - including, *Task Builder*, 10-15, 11-27
- decrementing I/O count, *Writing I/O Driver*, 1-16
- default conditions, *Program Development*, 4-5, 4-7
- default UIC
 - overriding, *MCR*, 3-188
- definition, *MCR*, 2-18
- delaying, *Executive*, 5-148
- detaching from region, *Executive*, 5-72
- device driver
 - building, *MCR*, 3-105
- device independence, *MCR*, 2-11
- disable offspring (VTDRV), *I/O Drivers*, 3-5
- disk image file, *Task Builder*, 2-9
- dormant, *MCR*, 2-21, 3-94; *System Management*, 5-20 ; *DCL*, 7-1; *Introduction*, 6-5
- dynamic memory, *MCR*, 3-143
- enabling fast-mapping for, *MCR*, 3-96
- event driven, *I/O Drivers*, 1-11
- event flags
 - group global, *MCR*, 3-65
- executable, *RMS-11 User's Guide*, 8-1
- executing, *MCR*, 3-94; *System Management*, 5-20 ; *DCL*, 7-6 to 7-16
 - affinity, *MCR*, 3-95
 - specifying resources for, *MCR*, 3-95

Task (cont'd.)

- executing in parallel, *Indirect*, 2-102
- execution
 - beginning, *XDT*, 2-13
- execution priority
 - specifying, *Task Builder*, 12-27
- exiting, *MCR*, 1-4
 - CTRL/Z (TTDRV), *I/O Drivers*, 2-72
- exiting with status, *Executive*, 5-89
- extending, *MCR*, 3-96; *System Management*, 1-5
 - default size, *MCR*, 3-96
- extension size, *System Management*, 5-22
- fixed, *Debugging*, 5-6; *System Management*, 5-18 ; *XDT*, 2-2
 - accessing address relative to, *MCR*, 3-128
 - running, *MCR*, 3-63
 - unloading, *MCR*, 3-63
- fixing, *DCL*, 7-39 to 7-40
- fixing in memory, *MCR*, 3-63
 - restrictions, *MCR*, 3-63
- frequency of accessing data areas, *Writing I/O Driver*, 1-18
- getting parameters, *Executive*, 5-142
- header
 - Executive copy, *System Management*, 5-26
 - Executive copy of, *MCR*, 3-100
 - external, *MCR*, 3-100; *System Management*, 5-26
 - installing
 - options, *MCR*, 3-100
 - installing in pool, *MCR*, 3-100; *System Management*, 5-26
 - in task image, *MCR*, 3-100; *System Management*, 5-26
- I- and D-space, *Task Builder*, 2-28
 - allocating memory, *Task Builder*, 7-10 to 7-19
 - identifying, *Task Builder*, 7-2
 - loading manually, *Task Builder*, 4-9, 4-11
 - mapping, *Task Builder*, 7-2, 7-4
 - overlaid, *Task Builder*, 7-5 to 7-9
 - overlay structure, *Task Builder*, 3-23
 - specifying, *Task Builder*, 10-24, 11-15
 - window, *Task Builder*, 7-5
- identifying, *Task Builder*, 12-22
- image, *Program Development*, 7-5
 - creating, *Program Development*, 4-1, 4-2, 7-5

Task (cont'd.)

- image file, *MCR*, 3-135; *System Management*, 8-18
 - creating, *MCR*, 2-19
 - for bootable system, *MCR*, 3-30
 - installing, *MCR*, 2-19
- initiated with IOX
 - terminating, *System Management*, 12-15
- initiation
 - EXECUTE command (IOX), *System Management*, 12-27
- installed, *MCR*, 1-4; *DCL*, 7-1 to 7-2, 7-3, 7-12 to 7-16
 - blocking, *MCR*, 3-29
 - displaying, *MCR*, 3-204; *DCL*, 7-60 to 7-61
 - effect of /SWPR keyword on priority, *MCR*, 3-185
 - removing, *Executive*, 1-23
- installing, *MCR*, 2-20, 3-94; *System Management*, 5-20; *DCL*, 7-28 to 7-36
 - default task name, *MCR*, 3-99; *System Management*, 5-25
 - setting time limit, *MCR*, 3-99
- installing and using, *System Generation*, 4-7
 - pregenerated kit, *System Generation*, 5-43
- installing in unsaved system, *MCR*, 3-94; *System Management*, 5-20
- installing permanently, *System Management*, 19-8
- installing TCB in primary pool, *MCR*, 3-98
- installing TCB in secondary pool, *MCR*, 3-98
- label block group, *Task Builder*, 2-9
- linking
 - to resident common, *Task Builder*, 12-9
 - to resident library, *Task Builder*, 12-9
 - to shared region, *Task Builder*, 5-16 to 5-19
 - options, *Task Builder*, 5-16
- linking to supervisor-mode library, *System Generation*, 3-76
- logical assignment, *MCR*, 3-14
- low-memory context, *Task Builder*, B-15
- macro calls, *Program Development*, 6-3, 6-4
- map, *Program Development*, 4-5
 - full, *Program Development*, 4-7
 - standard, *Program Development*, 4-5, 4-6

Task (cont'd.)

- mapping, MCR, 3-97, 3-144; *System Management*, 5-23; *Task Builder*, 2-16, 2-21, 2-25, 2-26
- memory management
 - use of, *Task Builder*, 2-16
- memory management support, *System Management*, 5-19
- multisegment
 - See Overlay
- multiuser, *Task Builder*, 2-28, 9-1
 - allocating program section, *Task Builder*, 9-1
 - building example, *Task Builder*, 9-4 to 9-10
 - disk image, *Task Builder*, 9-4
 - fixing common in memory, MCR, 3-63
 - I- and D-space, *Task Builder*, 9-4
 - overlaid, *Task Builder*, 9-4
 - specifying, *Task Builder*, 10-32, 11-62
 - specifying partition, *Task Builder*, 12-34
 - unfixing common, MCR, 3-211
 - window block, *Task Builder*, 9-2
- name, *Introduction*, 5-12
 - CLI, *System Management*, 17-3
- naming, MCR, 2-14, 2-20, 3-99, 3-144; *System Management*, 5-25
- naming convention, MCR, 1-4
- nonprivileged, MCR, 2-18; *Task Builder*, 6-1
 - breakthrough write (TTDRV), *I/O Drivers*, 2-18
 - directive restrictions, *Executive*, 1-23
- object file, MCR, 2-19
- object library routines, *Program Development*, 6-6
- offspring, *Executive*, 4-1
- offspring (VTDRV), *I/O Drivers*, 3-1
- overlaid, *Task Builder*, 2-10
 - disk-resident, *Task Builder*, 2-11
 - memory-resident, *Task Builder*, 2-12, 10-37, 11-54
 - using, *Task Builder*, 10-37, 11-54
- structure, *Task Builder*, 3-21, 3-22, 3-23
- overlay
 - restriction on extending, MCR, 3-96
- overlying, *Executive*, 3-1
- parent, *Executive*, 4-1
- parent (VTDRV), *I/O Drivers*, 3-1
- partition
 - allocating space in, MCR, 3-96

Task

- partition (cont'd.)
 - installing, MCR, 3-144, 3-190
 - specifying, *Task Builder*, 12-26
 - specifying size, MCR, 3-96, 3-143
- patching, *Task Builder*, 12-6, 12-13, 12-19
- patching image file, *Utilities*, 15-1
- priority, MCR, 2-19
 - altering, MCR, 3-12
 - base value, MCR, 3-179
 - running, MCR, 3-12
 - setting, *DCL*, 7-70 to 7-71
 - specifying, MCR, 3-97, 3-144; *System Management*, 5-23
 - static, MCR, 3-12
- privilege 0, *Task Builder*, 6-5
- privilege 4, *Task Builder*, 6-5
- privilege 5, *Task Builder*, 6-6
- privileged
 - breakthrough write (TTDRV), *I/O Drivers*, 2-20
- privileged, MCR, 2-18, 3-144; *Task Builder*, 2-25, 6-1; *XDT*, 2-2
 - breakthrough write (TTDRV), *I/O Drivers*, 2-18
 - building example, *Task Builder*, 6-6 to 6-11
 - debugging with ZAP, *XDT*, 1-11
 - hazards, *Task Builder*, 6-1
 - I- and D-space system, *Task Builder*, 6-13
 - mapping, *Executive*, 3-19, 5-281; *Task Builder*, 6-2 to 6-5, 6-13
 - specifying, *Task Builder*, 2-25, 6-2, 10-36, 11-52
- prompt, MCR, 2-14
- proper state to initiate buffered I/O, *Writing I/O Driver*, 1-16
- protecting, MCR, 3-145
- protection
 - specifying UIC, MCR, 3-99; *System Management*, 5-25
- prototype
 - effect of fixing in memory, MCR, 3-63
 - installing TCB in secondary pool, MCR, 3-98
 - slave status, MCR, 3-99
- reassigning LUN, MCR, 3-133
- receiving next CLI command, *Executive*, 5-234
- reexecuting, *System Management*, 5-18
- region, *Task Builder*, 2-20

Task (cont'd.)

- relocating, *Task Builder*, 2-2
- removing, *System Management*, 5-18; *DCL*, 7-37 to 7-38
- removing from system, *MCR*, 3-135
- requesting, *Executive*, 5-195, 5-222, 5-225, 5-241, 5-304
- resident, *MCR*, 3-63; *Introduction*, 6-5
- restrictions for fixing, *System Management*, 5-19
- resuming, *Executive*, 5-204
- returning status, *Executive*, 4-2, 4-3, 5-80
- root, *Task Builder*, 2-11
- running, *Executive*, 5-206; *MCR*, 1-4, 2-19, 3-138 to 3-146; *Program Development*, 4-7, 7-6; *Introduction*, 5-2
 - default UIC, *MCR*, 3-139
 - options
 - immediate, *MCR*, 3-145
 - install-run-remove, *MCR*, 3-146
 - protection UIC, *MCR*, 3-139
 - setting reschedule interval, *MCR*, 3-140
 - UIC, *MCR*, 3-145
 - uninstalled, *MCR*, 3-139
- running from console
 - aborting with PMT, *System Management*, 8-12
- segment, *Task Builder*, 2-11
- setting slave status, *MCR*, 3-144
- setting slave status for, *MCR*, 3-98
- size, *RMS-11 User's Guide*, 2-5; *System Management*, 5-57
- slaved
 - specifying, *Task Builder*, 10-48, 11-63
- spawning, *Executive*, 4-1, 4-4; *MCR*, 2-21
- spooling print job, *I/O Operations*, 8-1
- SST, *Program Development*, 4-8
- starting, *DCL*, 7-26
- status flags
 - displaying, *MCR*, 3-24
 - list of, *MCR*, 3-24 to 3-26
- stopped
 - forcing to checkpoint, *System Management*, 8-12
- stopping, *Executive*, 5-271, 5-274, 5-275
- storage area
 - declaring size, *Task Builder*, 12-16
- structure, *RMS-11 User's Guide*, 1-13; *Task Builder*, 2-9

Task (cont'd.)

- supplied system list, *System Generation*, 3-78
- suspended
 - resuming execution of, *MCR*, 3-137
- suspending, *Executive*, 5-238, 5-307, 5-309, 5-311
- system, *Program Development*, 1-1
 - library contributions, *Program Development*, 4-7
 - setting default UIC for, *MCR*, 3-185
- terminal
 - slave, *MCR*, 2-18
- terminating, *Executive*, 5-85, 5-87
- termination, *Program Development*, 4-8
- testing, *Indirect*, 2-67, 2-69
- time limit
 - specifying, *MCR*, 3-145
- traceable
 - specifying, *Task Builder*, 10-53, 11-69
- transfer (starting) address
 - default, *Program Development*, 4-3, 4-7
 - defining, *Program Development*, 2-8
- transferring command line, *Executive*, 5-129
- transferring to target system, *Task Builder*, C-1
 - example, *Task Builder*, C-2 to C-5
- UIC
 - declaring, *Task Builder*, 12-39
 - specifying, *MCR*, 3-99
- unblocked, *MCR*, 3-210
- unblocking, *DCL*, 7-27
- unfixing, *MCR*, 3-211
- unfixing from memory, *System Management*, 5-80
- unstopping, *Executive*, 5-294
- XEDRV connection, *I/O Drivers*, 10-25

Task/File Patch Program

- See ZAP utility

Task Account Block, *System Management*, 10-27

- See TAB

Task accounting

- Resource Accounting, *System Management*, 10-6

Task buffer descriptor, *I/O Operations*, 3-10

Task build

- aborting, *Task Builder*, 12-5

Task Builder, *MCR*, 2-19; *Introduction*, 5-6 to 5-8

- See also TKB

Task Builder (cont'd.)

- /CP switch
 - overriding with INSTALL command, MCR, 3-96
- /IP switch
 - complement to INSTALL keyword, MCR, 3-97, 3-144
- /PM switch
 - using ABORT command instead of, MCR, 3-2
- /SL switch
 - overriding with INSTALL keyword, MCR, 3-98
- task
 - object file, MCR, 2-19
 - priority, MCR, 2-19
- /XH option
 - correlation with INSTALL keyword /XHR, MCR, 3-100
- /XH switch
 - modifying default for installed task, MCR, 3-101

Task-build file

- IOX, *System Management*, 12-2

Task Control Block, MCR, 3-24, 3-29

- See also TCB
- creating, MCR, 3-94
- installing in primary pool, MCR, 3-98
- installing in secondary pool, MCR, 3-98
- removing, MCR, 3-94
- saving, MCR, 3-148

Task Control Block switch

- See /ACT, /ATL

Task control commands, MCR, 1-6

Task data space

- switch
 - See /TDS

Task directive common, *Writing I/O Driver*, 1-20

/TASKD keyword

- OPENREGISTER command, MCR, 3-128

Task dump, *Crash Dump Analyzer*, 3-39

- window blocks, *Crash Dump Analyzer*, 3-39

Task entry points, *Writing I/O Driver*, 1-20

Task execution

- aborting, *Debugging*, 1-6
- beginning, *Debugging*, 2-8, 3-3
- continuing, *Debugging*, 2-9, 3-3
- resuming, *Debugging*, 1-6, 3-4

Task Executive code, *Writing I/O Driver*, 1-20

Task Exit directive, *Executive*, 5-87

Task header, *Task Builder*, B-12 to B-15;

- Writing I/O Driver*, 6-9

composite arrangement, *Writing I/O Driver*, 2-12

LUT entry, *Task Builder*, B-17

out-of-pool, *System Generation*, 3-25

pointers, *Writing I/O Driver*, 6-7

switch

- See /HDR

Task Header display

RMD

- altering from MCR command line, *System Management*, 7-15

- altering from setup page, *System Management*, 7-14

- contents, *System Management*, 7-13

- description, *System Management*, 7-13

- example, *System Management*, 7-14

- RATE command, *System Management*, 7-14

- TASK command, *System Management*, 7-14

Task header dump, *Crash Dump Analyzer*, 3-21

- Directive Status Word, *Crash Dump Analyzer*, 3-22

- File Control Block, *Crash Dump Analyzer*, 3-22

- Logical Unit Table, *Crash Dump Analyzer*, 3-22

- Page Description Register, *Crash Dump Analyzer*, 3-23

- swapping priority, *Crash Dump Analyzer*, 3-22

- window blocks, *Crash Dump Analyzer*, 3-22

Task I/O, *Writing I/O Driver*, 1-16

/TASKI keyword

- OPENREGISTER command, MCR, 3-128

Task image, *Task Builder*, B-17 to B-26;

- Introduction*, 5-3

- file, *Introduction*, 5-7

header

- specifying, *Task Builder*, 10-23, 11-35

Task image file, MCR, 3-147; DCL, 7-8 to 7-12

for checkpointable task

- restriction on extending, MCR, 3-96

- installing task in unsaved system, MCR, 3-94; *System Management*, 5-20

- recording on disk, *Task Builder*, B-1 to B-5

- specifying UIC for, MCR, 3-139

- structure, *Task Builder*, B-1 to B-26

- Task image file (cont'd.)
 - System Task Directory entry, *MCR*, 1-4
- Task instruction space
 - switch
 - See /TIS
- /TASK keyword
 - INS command (*VMR*), *System Management*, 5-25
 - INSTALL command, *MCR*, 3-99
 - OPENREGISTER command, *MCR*, 3-128
 - RUN command, *MCR*, 3-144
- TASKLIST-ATL command, *MCR*, 3-203
 - brief description, *MCR*, 1-6
 - format, *MCR*, 3-203
 - parameters, *MCR*, 3-203
- TASKLIST command, *MCR*, 3-204
 - brief description, *MCR*, 1-6
 - /DEV keyword, *MCR*, 3-204
 - examples, *MCR*, 3-204
 - format, *MCR*, 3-204
 - parameters, *MCR*, 3-204
 - VMR*
 - See TAS command
- Task map, *Debugging*, 1-2, 1-3, 5-5
- Task name, *DCL*, 7-2 to 7-5
 - changing, *Task Builder*, 12-37
 - specifying, *Task Builder*, 11-30, 11-67
- TASK option, *Task Builder*, 12-37
- Task option
 - list, *Executive*, 5-283
 - testing, *Executive*, 5-283
- Task output
 - spooling, *Batch and Queue*, 2-12
- TASK parameter
 - SET ACCOUNTING command, *System Management*, 10-9
 - START/ACCOUNTING command, *System Management*, 10-6
- /TASK qualifier, *Task Builder*, 11-67
 - INSTALL command, *System Management*, 3-11
 - installing batch processors, *System Management*, 3-11
 - LINK command, *Program Development*, 6-6, 6-7, 6-8
- Task record buffer, *I/O Operations*, 3-20
- Task region, *Executive*, 3-5
- TASK setup command, *System Management*, 7-11, 7-14
- /TASKS keyword
 - COMMON BLOCK DIRECTORY
 - command, *MCR*, 3-40
 - /TASK subkeyword
 - COMMAND LINE INTERPRETER
 - command, *MCR*, 3-44
- TASK subpacket, *Error Logging*, 4-3
 - listing, *Error Logging*, 4-62
- Task Termination Notification program
 - See TKTN
- Task vectoring, *Writing I/O Driver*, 1-20
- Task virtual address space switch, *Crash Dump Analyzer*, 2-7
- Task window, *Task Builder*, 2-20, 2-22
 - creating, *Task Builder*, 2-24
 - identifying, *Task Builder*, 2-24
 - setting up, *Task Builder*, 2-22
- /TB subswitch
 - PIP utility, *Utilities*, 12-19
- /TB switch
 - CMP utility, *Utilities*, 4-4
- TC.8BC characteristic
 - TTDRV, *I/O Drivers*, 2-58
- TC.ABD characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.ACD characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.ACR characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.ANI characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.ASP characteristic
 - TTDRV, *I/O Drivers*, 2-54, 2-60
 - baud rate
 - modem support, *I/O Drivers*, 2-84
- TC.AVO characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.BIN characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.BLK characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.CLN characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.CTS characteristic
 - TTDRV, *I/O Drivers*, 2-54, 2-61
- TC.DEC characteristic
 - TTDRV, *I/O Drivers*, 2-54
- TC.DLU characteristic
 - TTDRV, *I/O Drivers*, 2-55
 - modem support, *I/O Drivers*, 2-84
- TC.EDT characteristic
 - TTDRV, *I/O Drivers*, 2-55
- TC.EPA characteristic
 - TTDRV, *I/O Drivers*, 2-55

- TC.ESQ characteristic
 - TTDRV, *I/O Drivers*, 2-55
- TC.FDX characteristic
 - TTDRV, *I/O Drivers*, 2-55
 - VTDRV, *I/O Drivers*, 3-7, 3-8
- TC.HFF characteristic
 - TTDRV, *I/O Drivers*, 2-55
- TC.HFL characteristic
 - TTDRV, *I/O Drivers*, 2-55
- TC.HHT characteristic
 - TTDRV, *I/O Drivers*, 2-55
- TC.HLD characteristic
 - TTDRV, *I/O Drivers*, 2-55, 2-60
 - side effect, *I/O Drivers*, 2-65
- TC.HSY characteristic
 - TTDRV, *I/O Drivers*, 2-55
- TC.ICS characteristic
 - TTDRV, *I/O Drivers*, 2-55
- TC.ISL characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.LPP characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.MAP characteristic
 - TTDRV, *I/O Drivers*, 2-56
 - processing, *I/O Drivers*, 2-63
- TC.MHU characteristic
 - TTDRV, *I/O Drivers*, 2-56
 - buffer, *I/O Drivers*, 2-63
 - processing, *I/O Drivers*, 2-63
- TC.NBR characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.NEC characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.OOB characteristic
 - TTDRV, *I/O Drivers*, 2-56
 - buffer, *I/O Drivers*, 2-64
 - processing, *I/O Drivers*, 2-63, 2-64
- TC.PAR characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.PPT characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.PRI characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.PTH characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.QDP characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.RAT characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.RGS characteristic
 - TTDRV, *I/O Drivers*, 2-56
- TC.RSP characteristic
 - TTDRV, *I/O Drivers*, 2-57, 2-60
- TC.SCP characteristic
 - TTDRV, *I/O Drivers*, 2-57
 - VTDRV, *I/O Drivers*, 3-8
- TC.SFC characteristic
 - TTDRV, *I/O Drivers*, 2-57
- TC.SLV characteristic
 - TTDRV, *I/O Drivers*, 2-57
- TC.SMR characteristic
 - TTDRV, *I/O Drivers*, 2-57
 - side effect, *I/O Drivers*, 2-65
 - VTDRV, *I/O Drivers*, 3-8
- TC.SSC characteristic
 - TTDRV, *I/O Drivers*, 2-57
 - buffer, *I/O Drivers*, 2-64
 - processing, *I/O Drivers*, 2-63
 - side effect, *I/O Drivers*, 2-66
- TC.SXL characteristic
 - TTDRV, *I/O Drivers*, 2-57
- TC.TBF characteristic
 - TTDRV, *I/O Drivers*, 2-57, 2-61
- TC.TBM characteristic
 - TTDRV, *I/O Drivers*, 2-57
- TC.TBS characteristic
 - TTDRV, *I/O Drivers*, 2-57
- TC.TLC characteristic
 - TTDRV, *I/O Drivers*, 2-57
- TC.TMM characteristic
 - TTDRV, *I/O Drivers*, 2-57
- TC.TPP characteristic
 - TTDRV
 - terminal type value, *I/O Drivers*, 2-58
- TC.TSY characteristic
 - TTDRV, *I/O Drivers*, 2-58
- TC.TTP characteristic
 - TTDRV, *I/O Drivers*, 2-58, 2-61
 - VTDRV, *I/O Drivers*, 3-8
- TC.VFL characteristic
 - TTDRV, *I/O Drivers*, 2-58
- TC.WID characteristic
 - TTDRV, *I/O Drivers*, 2-58
- TC.XSP characteristic
 - TTDRV, *I/O Drivers*, 2-58, 2-60
- /TCB, *Crash Dump Analyzer*, 2-4, 2-7
- TCB, *System Management*, 5-26; *Writing I/O Driver*, 1-16
- See also Task Control Block
- address of, *Crash Dump Analyzer*, 3-16, 3-18
- composite arrangement, *Writing I/O Driver*, 2-12

- TCB (cont'd.)
 - creating, *System Management*, 5-26
 - pointer to current, *Crash Dump Analyzer*, 3-5
 - removing, *System Management*, 5-20
- TCBDF\$, *Crash Dump Analyzer*, C-74
- /TDS, *Crash Dump Analyzer*, 2-4, 2-7
- /TD switch
 - PIP utility, *Utilities*, 12-32
- TDX, *Indirect*, 2-2; *System Management*, 19-1
 - See also Catchall task
 - command summary, *System Management*, 19-1
 - corresponding MCR commands, *System Management*, 19-1
 - definition, *System Management*, 19-1
 - description, *System Management*, 1-19
 - flying Indirect behavior, *System Management*, 19-4
 - flying install behavior, *System Management*, 19-4
 - logical assignments for pseudo device ZZ, *System Management*, 19-3
 - modifying, *System Management*, 19-7
 - running uninstalled tasks, *MCR*, 3-139
 - sample command file, *System Management*, 19-5
 - selecting MCR options, *System Management*, 19-7
 - use, *System Management*, 1-19, 19-1
- TE10 magnetic tape unit, *I/O Drivers*, 6-3, 6-4
- TE16 magnetic tape unit, *I/O Drivers*, 6-4
- Tef parameter
 - device-specific function
 - receive (LRDRV), *I/O Drivers*, 11-9
- Telephone
 - dial command string, *Utilities*, C-5
- Teletypewriter, *I/O Drivers*, 2-4
 - ASR-33, *I/O Drivers*, 2-4
 - ASR-35, *I/O Drivers*, 2-4
- TEMPORARYFILE command
 - IOX, *System Management*, 12-57
 - initial default, *System Management*, 12-57
- Term
 - component of expressions, *MACRO-11*, 2-13
 - definition and possible elements, *MACRO-11*, 2-13
- Terminal, *RMS-11 Macro*, 3-1, 5-20, 5-37, 5-42, 5-77, 5-80, 5-88, 5-104, 5-111, 5-117; *DCL*, 3-1 to 3-11; *Introduction*, 1-1, 1-6
 - attached, *MCR*, 2-18; *DCL*, 3-2
 - attached by task, *MCR*, 2-14
 - attaching (VTDRV), *I/O Drivers*, 3-4
 - attaching with task, *MCR*, 2-18
 - baud rate, *Indirect*, 2-20
 - setting, *MCR*, 3-184
 - baud rate for RSX systems, *Utilities*, C-2
 - buffer, *MCR*, 3-187
 - characteristics
 - get multiple
 - TTDRV, *I/O Drivers*, 2-53
 - VTDRV, *I/O Drivers*, 3-6
 - implicit (TTDRV), *I/O Drivers*, 2-61
 - setting
 - TTDRV, *I/O Drivers*, 2-61
 - VTDRV, *I/O Drivers*, 3-7
 - table
 - TTDRV, *I/O Drivers*, 2-54
 - VTDRV, *I/O Drivers*, 3-8
- characteristics
 - displaying, *DCL*, 3-51
 - setting, *MCR*, 3-151, 3-157 to 3-199; *DCL*, 3-38, 9-37
 - showing, *DCL*, 9-46
- CLI
 - default, *MCR*, 3-67
- console
 - displaying current assignment, *System Management*, 9-5
- cursor control (TTDRV), *I/O Drivers*, 2-81
- default directory for, *MCR*, 2-7
- definition of, *MCR*, 2-13
- detaching (VTDRV), *I/O Drivers*, 3-4
- disconnect (TTDRV), *I/O Drivers*, 2-37
- displaying, *MCR*, 3-50
- driver
 - virtual, *I/O Drivers*, 3-1
- driver
 - full-duplex, *MCR*, 3-166
- establishing ports for data transfer, *Utilities*, C-1
- examining a listing, *Program Development*, 3-6
- exercising with IOX, *System Management*, 12-2
- full-duplex operation (TTDRV), *I/O Drivers*, 2-80
- function code list, *I/O Drivers*, B-9

Terminal (cont'd.)

- get support
 - TTDRV, *I/O Drivers*, 2-20, 2-35
 - return, *I/O Drivers*, 2-36
- hardcopy, *Introduction*, 1-1
- input
 - checkpointing TTDRV, *I/O Drivers*, 2-83
- interface (TTDRV), *I/O Drivers*, 2-82
- lock out during file transfer, *Utilities*, C-7
- nonprivileged, MCR, 2-18
- nonslave, MCR, 3-184
- nonslaved, *System Management*, 5-46
- output
 - controlling, *Program Development*, 3-6
 - privilege status, MCR, 2-18, 3-68
 - programming hint (TTDRV), *I/O Drivers*, 2-83
- READ operation, *RMS-11 Macro*, 5-103
- read-pass-all, MCR, 3-182
- remote, MCR, 3-157
 - setting baud rate, *System Management*, 5-63
- running a task from, MCR, 2-13
- session
 - accounting, MCR, 3-67
- setting characteristics for, *Utilities*, C-1
- setting to MCR, MCR, 1-1
- shareable
 - definition, *System Management*, 3-8
- slave, MCR, 2-18, 3-68
 - displaying, MCR, 3-184
 - setting, MCR, 3-183
- slaved, *System Management*, 5-46; DCL, 3-2
 - running RMD on, *System Management*, 7-2
- speed
 - setting, MCR, 3-184
- status return (TTDRV), *I/O Drivers*, 2-66
- support
 - TTDRV, *I/O Drivers*, 2-2
 - VTDRV, *I/O Drivers*, 3-7
- suppressing output (TTDRV), *I/O Drivers*, 2-71
- synchronization
 - disabling, MCR, 3-187
 - setting, MCR, 3-187
- task
 - displaying, MCR, 3-50
 - name, MCR, 2-20

Terminal (cont'd.)

- testing with IOX, *System Management*, 12-35
- type, *Indirect*, 2-21; *Program Development*, 1-12
 - setting, MCR, 3-185, 3-186
- type-ahead buffer, *Utilities*, C-7
- type value (TTDRV), *I/O Drivers*, 2-58
- unattached, MCR, 2-18
- video, *Introduction*, 1-1
- virtual, *I/O Drivers*, 3-1
 - creating, *Executive*, 5-56
 - deallocating, *Executive*, 5-78
 - function code list, *I/O Drivers*, B-11
- VT100, *Introduction*, 1-1, 1-3
- VT100-series, DCL, 3-17
 - special keys, DCL, 3-18
- VT200-series, DCL, 3-17
 - special keys, DCL, 3-18
- VT220, *Introduction*, 1-1, 1-4
- VT52, DCL, 3-17
 - special keys, DCL, 3-18
- Terminal driver
 - full-duplex
 - See TTDRV
- Terminal emulation, *System Management*, 1-19
 - establishing, *Utilities*, C-3
 - using DCL, *Utilities*, C-4
 - terminating, *Utilities*, C-5
- Terminal input/output device
 - See TI device
- Terminal interface
 - See also Line interface
 - support, *I/O Drivers*, 2-3
- Terminal line
 - asynchronous, *Utilities*, C-1
 - parallel processing, MCR, 3-183
 - remote
 - displaying, MCR, 3-181
 - setting, MCR, 3-181
 - serial processing, MCR, 3-183
 - variations in transmission speed, *Utilities*, C-2
- Terminal monitoring
 - TTDRV, *I/O Drivers*, 2-15
- Terminal multiplexer
 - See Multiplexer
- Terminator
 - stream records, *RMS-11 User's Guide*, 2-16; *RMS-11 Intro*, 3-4

- /TERM keyword
 - ABORT command, *MCR*, 3-3
 - ACTIVE command, *MCR*, 3-8
 - ALLOCATE command, *MCR*, 3-10
 - ALTER command, *MCR*, 3-12
 - ASSIGN command, *MCR*, 3-19, 3-20, 3-21
 - BLOCK command, *MCR*, 3-29
 - DEFINE LOGICALS command, *MCR*, 3-56, 3-57
 - DISMOUNT command, *MCR*, 3-61
 - RESUME command, *MCR*, 3-137
 - SET command, *MCR*, 3-185
 - SET command (*VMR*), *System Management*, 5-67
 - UNBLOCK command, *MCR*, 3-210
 - UNSTOP command, *MCR*, 2-213
- /TERM switch
 - QUE /SP command, *System Management*, 3-20
- T error
 - number more than 16 bits long, *MACRO-11*, 2-13
- \$TESTBITS macro, *RMS-11 Macro*, 2-17
- Test configuration
 - setting up for *IOX*, *System Management*, 12-4
- .TESTDEVICE directive, *Indirect*, 2-94
- .TEST directive, *Indirect*, 2-92
- .TESTFILE directive, *Indirect*, 2-96
- Test for Specified System Feature directive, *Executive*, 5-93
- Test for Specified Task Feature directive, *Executive*, 5-283
- .TESTPARTITION directive, *Indirect*, 2-98
- TE trap, *Debugging*, 1-6
- Text
 - buffer, *Program Development*, 1-4
 - displaying on terminal, *Indirect*, 2-39, 2-41, 2-44
 - editor, *Program Development*, 1-4
 - See also *EDI editor*, *EDT editor*
- Text information record type, *Task Builder*, A-13
- TF.AST subfunction
 - TTDRV, *I/O Drivers*, 2-14
- TF.BIN subfunction
 - TTDRV, *I/O Drivers*, 2-14
 - IO.EIO function, *I/O Drivers*, 2-29
 - IO.RPR function, *I/O Drivers*, 2-43
- TF.CCO subfunction
 - Cancel CTRL/O, *I/O Drivers*, 2-14
- TF.CCO subfunction (cont'd.)
 - TTDRV, *I/O Drivers*, 2-14
 - IO.EIO function, *I/O Drivers*, 2-29
 - IO.WAL function, *I/O Drivers*, 2-50
 - IO.WBT function, *I/O Drivers*, 2-52
- TF.ESQ subfunction
 - TTDRV, *I/O Drivers*, 2-14
 - IO.ATA function, *I/O Drivers*, 2-24
- TF.NOT subfunction
 - TTDRV, *I/O Drivers*, 2-15
 - IO.ATA function, *I/O Drivers*, 2-23, 2-25
- TF.RAL subfunction
 - TTDRV, *I/O Drivers*, 2-15
 - IO.EIO function, *I/O Drivers*, 2-29
 - IO.RNE function, *I/O Drivers*, 2-41
 - IO.RPR function, *I/O Drivers*, 2-44
 - IO.RST function, *I/O Drivers*, 2-46
 - IO.RTT function, *I/O Drivers*, 2-48
- TF.RCU subfunction
 - TTDRV, *I/O Drivers*, 2-15
 - IO.EIO function, *I/O Drivers*, 2-29
 - IO.RTT function, *I/O Drivers*, 2-48
 - IO.WAL function, *I/O Drivers*, 2-50
 - IO.WBT function, *I/O Drivers*, 2-52
- TF.RDI subfunction
 - TTDRV, *I/O Drivers*, 2-15
 - IO.EIO function, *I/O Drivers*, 2-29
- TF.RES subfunction
 - TTDRV, *I/O Drivers*, 2-15
 - IO.EIO function, *I/O Drivers*, 2-29
- TF.RLB subfunction
 - TTDRV, *I/O Drivers*, 2-15
- TF.RLU subfunction
 - TTDRV, *I/O Drivers*, 2-15
 - IO.EIO function, *I/O Drivers*, 2-29
- TF.RNE subfunction
 - TTDRV, *I/O Drivers*, 2-16
 - IO.EIO function, *I/O Drivers*, 2-29
 - IO.RAL function, *I/O Drivers*, 2-39
 - IO.RPR function, *I/O Drivers*, 2-44
 - IO.RST function, *I/O Drivers*, 2-46
 - IO.RTT function, *I/O Drivers*, 2-48
- TF.RNF subfunction
 - TTDRV, *I/O Drivers*, 2-16
 - IO.EIO function, *I/O Drivers*, 2-29
- TF.RPR subfunction
 - TTDRV, *I/O Drivers*, 2-16
 - ignoring prompt, *I/O Drivers*, 2-30
 - IO.EIO function, *I/O Drivers*, 2-30
- TF.RPT subfunction
 - TTDRV, *I/O Drivers*, 2-16

- TF.RPT subfunction
 - TTDRV (cont'd.)
 - IO.EIO function, *I/O Drivers*, 2-30
- TF.RST subfunction
 - TTDRV, *I/O Drivers*, 2-17
 - IO.EIO function, *I/O Drivers*, 2-30
 - IO.RAL function, *I/O Drivers*, 2-39
 - IO.RNE function, *I/O Drivers*, 2-41
 - IO.RPR function, *I/O Drivers*, 2-44
- TF.RTT subfunction
 - TTDRV, *I/O Drivers*, 2-17
 - IO.EIO function, *I/O Drivers*, 2-30
 - TF.RAL subfunction, *I/O Drivers*, 2-17
 - TF.RNF subfunction, *I/O Drivers*, 2-17
 - TF.TNE subfunction, *I/O Drivers*, 2-17
- TF.TMO subfunction
 - TTDRV, *I/O Drivers*, 2-17
 - IO.EIO function, *I/O Drivers*, 2-31
 - IO.RAL function, *I/O Drivers*, 2-39
 - IO.RNE function, *I/O Drivers*, 2-39, 2-41
 - IO.RPR function, *I/O Drivers*, 2-44
 - IO.RST function, *I/O Drivers*, 2-46
 - IO.RTT function, *I/O Drivers*, 2-48
- TF.TNE subfunction
 - TTDRV, *I/O Drivers*, 2-17
 - IO.EIO function, *I/O Drivers*, 2-31
- TF.WAL subfunction
 - TTDRV, *I/O Drivers*, 2-18
 - IO.CCO function, *I/O Drivers*, 2-26
 - IO.EIO function, *I/O Drivers*, 2-31
 - IO.WBT function, *I/O Drivers*, 2-52
- TF.WBT subfunction
 - TTDRV, *I/O Drivers*, 2-18
 - breakthrough write, *I/O Drivers*, 2-20, 2-27
 - IO.CCO function, *I/O Drivers*, 2-27
 - IO.EIO function, *I/O Drivers*, 2-31
 - IO.WAL function, *I/O Drivers*, 2-50
- TF.WIR subfunction
 - TTDRV, *I/O Drivers*, 2-18
 - IO.EIO function, *I/O Drivers*, 2-32
- TF.WLB subfunction
 - TTDRV, *I/O Drivers*, 2-18
- TF.XCC subfunction
 - TTDRV, *I/O Drivers*, 2-19, 2-23
 - IO.ATA function, *I/O Drivers*, 2-25
- TF.XOF subfunction
 - TTDRV, *I/O Drivers*, 2-19
 - IO.EIO function, *I/O Drivers*, 2-32
 - IO.RNE function, *I/O Drivers*, 2-41
 - IO.RPR function, *I/O Drivers*, 2-44
- TF.XOF subfunction
 - TTDRV (cont'd.)
 - IO.RST function, *I/O Drivers*, 2-46
- TFEA\$ directive, *Executive*, 5-283
- Throughput
 - definition, *System Management*, 14-4
 - file system
 - increasing, *System Management*, 1-7
 - improving, *System Management*, 14-4
 - increasing, *System Management*, 4-22
- Tick
 - definition, MCR, 3-140; *System Management*, 1-6
 - rate, MCR, 3-140
 - zero, *System Management*, 10-16
 - <TICLPP> symbol, *Indirect*, 2-19
 - <TICWID> symbol, *Indirect*, 2-19
- TI device, MCR, 2-10
 - redirecting, MCR, 2-10
- \$TIM (Time conversion), *System Library*, 6-6
- %TIM\$RSX_CURRENT
 - CFL time-handling function, *Error Logging*, 5-24
- %TIM\$RSX_DATE
 - CFL time-handling function, *Error Logging*, 5-24
- %TIM\$RSX_NULL
 - CFL time-handling function, *Error Logging*, 5-24
- %TIM\$RSX_VMS
 - CFL time-handling function, *Error Logging*, 5-24
- %TIM\$VMS_CURRENT
 - CFL time-handling function, *Error Logging*, 5-25
- %TIM\$VMS_DATE
 - CFL time-handling function, *Error Logging*, 5-25
- %TIM\$VMS_MINUS
 - CFL time-handling function, *Error Logging*, 5-25
- %TIM\$VMS_NULL
 - CFL time-handling function, *Error Logging*, 5-25
- %TIM\$VMS_PLUS
 - CFL time-handling function, *Error Logging*, 5-25
- %TIM\$VMS_RSX
 - CFL time-handling function, *Error Logging*, 5-25
- TIM command
 - See also TIME command

TIM command (cont'd.)
 VMR, *System Management*, 5-78
 definition, *System Management*, 5-78
 examples, *System Management*, 5-79
 formats, *System Management*, 5-78
 notes, *System Management*, 5-78
 parameters, *System Management*, 5-78

Time
 displaying, *System Management*, 5-78;
 DCL, 8-4
 getting parameters, *Executive*, 5-140
 setting, *Executive*, 5-268; *System Management*, 5-78; DCL, 8-2
 <TIME> symbol, *Indirect*, 2-25

TIME command, MCR, 3-206
 brief description, MCR, 1-5
 examples, MCR, 3-207
 format, MCR, 3-206
 parameters, MCR, 3-206
 VMR
 See TIM command

Time conversion
 time (\$TIM), *System Library*, 6-6

Time data
 K-series
 gathering interevent, *I/O Drivers*, 13-19

/TIME keyword
 INSTALL command, MCR, 3-99
 RUN command, MCR, 3-145

Timeout
 count, *Writing I/O Driver*, 4-37
 entry point, *Writing I/O Driver*, 2-5
 LADRV, *I/O Drivers*, 12-31
 reading (TTDRV), *I/O Drivers*, 2-31
 unsolicited input (TTDRV), *I/O Drivers*, 2-21

Timeout count
 TTDRV, *I/O Drivers*, 2-17

Timeout interval
 system shutdown (SHUTUP.CMD), *System Management*, 6-3

Timeout mode, *Indirect*, 2-55

Timeout parameter
 UNIBUS switch driver
 IO.DPT function, *I/O Drivers*, 14-7

Time parameter
 RCLOKB: subroutine (K-series), *I/O Drivers*, 13-23

/TIME qualifier
 JOB command, *Batch and Queue*, 3-4

Timesharing, *Introduction*, 6-3

Time-stamp
 format, *System Management*, 9-2
 <TIMEOUT> symbol, *Indirect*, 2-11
 /TIS, *Crash Dump Analyzer*, 2-5, 2-7
 <TISPED> symbol, *Indirect*, 2-20

.TITLE directive, *Program Development*, 2-4, 6-6; MACRO-11, 5-9
 defaults to .MAIN., MACRO-11, 5-10
 result if more than one, MACRO-11, 5-10
 summary, MACRO-11, 5-3
 text appears in listing heading, MACRO-11, 5-3

<TITYPE> symbol, *Indirect*, 2-21

TK25 magnetic tape unit, *I/O Drivers*, 6-4

TK50 kit
 contents, *System Generation*, 2-5

TK50 magnetic tape unit, *I/O Drivers*, 6-4

TKB, *RMS-11 User's Guide*, 1-13; *Program Development*, 1-6, 4-1; DCL, 6-1, 6-6 to 6-7
 See also LINK command
 See also Task Builder
 and optimizations, *RMS-11 User's Guide*, 8-10
 and overlay structure, *RMS-11 User's Guide*, 8-10
 and remote access code, *RMS-11 User's Guide*, B-1
 and RMS-11 routines, *RMS-11 User's Guide*, 8-1
 and RMSRES, *RMS-11 User's Guide*, 8-6
 command line, *Task Builder*, 1-2
 creating task, *Program Development*, 1-6
 cross-reference listing, *Program Development*, 4-6
 /DA switch, *Debugging*, 8-1
 data formats, *Task Builder*, A-1 to A-36
 defaults
 modifying, *Task Builder*, F-6 to F-11
 error, *Program Development*, 4-2, 4-8
 error messages, *Program Development*, 4-2;
Task Builder, H-1 to H-12
 functions, *Task Builder*, 2-1
 GBLPAT option, *Debugging*, 8-3
 generating
 cross-reference listing, *Program Development*, 4-5, 4-6
 map
 full, *Program Development*, 4-7
 standard, *Program Development*, 4-6

TKB (cont'd.)

- improving performance, *Task Builder*, F-1 to F-12
- improving throughput, *Task Builder*, F-1 to F-6
- including ODT in task, *Program Development*, 5-2
- input, *Program Development*, 1-6
- input file, *DCL*, 6-3 to 6-6
- /IP switch
 - complement to INSTALL keyword, *System Management*, 5-23
- linking
 - ODT, *Debugging*, 1-2
 - ODTID, *Debugging*, 1-3
 - supervisor-mode libraries, *Debugging*, 1-4
- object library
 - designation, *Program Development*, 6-4
 - use, *Program Development*, 6-8
- options, *Task Builder*, 12-1 to 12-45
 - categories, *Task Builder*, 12-1
 - prompting for, *Task Builder*, 11-48
 - summary, *Task Builder*, 12-1 to 12-4
- output, *Program Development*, 1-6
- PAT utility, *Utilities*, 11-5
- qualifiers, *Task Builder*, 11-1 to 11-71
 - summary, *Task Builder*, 11-3 to 11-9
- search of system library
 - default, *Program Development*, 1-11
- slow
 - using to improve performance, *Task Builder*, F-11
- specifying a debugger, *Debugging*, 8-1
- switches, *Task Builder*, 10-1 to 10-56
 - /CR, *Program Development*, 1-9, 4-6
 - /DA, *Program Development*, 5-2
 - /LB, *Program Development*, 6-7, 6-8, 7-7
 - /MA, *Program Development*, 4-7
 - /PM, *Program Development*, 5-9
 - /SH, *Program Development*, 4-7
 - summary, *Task Builder*, 10-2 to 10-5
 - syntax, *Task Builder*, 10-1
- symbol, *DCL*, 6-7
 - undefined, *Program Development*, 4-2
- syntax rules, *Task Builder*, 1-17 to 1-19
- transfer (starting) address
 - default, *Program Development*, 4-3
- /XH option
 - correlation with INSTALL keyword
 - /XHR, *System Management*, 5-26

/TKB qualifier, *Task Builder*, 11-68

\$TKTCB

pointer to current TCB, *Writing I/O Driver*, 6-7

TKTN

abort message, *Program Development*, 4-8

format of messages, *MCR*, A-1

messages, *DCL*, 10-17 to 10-18

nonrecoverable hardware error, *System Management*, 11-4

request during I/O rundown, *MCR*, 3-2

using with PMD task, *Program Development*, 1-8

TLOG\$ directive, *Executive*, 5-286

TLON\$ directive, *Executive*, 5-286

TM02 formatter, *I/O Drivers*, 6-4

TM03 formatter, *I/O Drivers*, 6-4

TMCLI.FTN file, *System Management*, 17-9

TMCLI.MAC file, *System Management*, 17-9

Tmo parameter

device-specific function

VTDRV, *I/O Drivers*, 3-4

TTDRV, *I/O Drivers*, 2-13

IO.RAL function, *I/O Drivers*, 2-39

IO.RNE function, *I/O Drivers*, 2-40

IO.RPR function, *I/O Drivers*, 2-43

IO.RST function, *I/O Drivers*, 2-46

IO.RTT function, *I/O Drivers*, 2-48

VTDRV, *I/O Drivers*, 3-5

TMSCP

controller

SYSGEN question, *System Generation*, 3-47

TMSCPE device-level module, *Error Logging*, 4-9, A-7

TOC argument

for .LIST/.NLIST, *MACRO-11*, 5-8

/TODAY qualifier

ANALYZE/ERROR_LOG command, *Error Logging*, 3-9

See also /DATE switch

/TOP_OF_FILE qualifier

START/PROCESSOR command, *System Management*, 3-38

Top command

EDI editor, *Utilities*, 7-39

TOP function

EDT editor, *Introduction*, 2-7

/TOP keyword

SET command, *MCR*, 3-186

SET command (VMR), *System Management*, 5-68 to 5-69

- Top of File command
 - EDI editor, *Utilities*, 7-39
- Total system statistics
 - Resource Accounting, *System Management*, 10-16
- Tout parameter
 - device-specific (UNIBUS switch driver), *I/O Drivers*, 14-5
- TPARS
 - built-in variable, *I/O Operations*, 7-5
 - coding, *I/O Operations*, 7-1, 7-7
 - command line parsing, *I/O Operations*, 7-1
 - creating parser program, *I/O Operations*, 7-12
 - invoking, *I/O Operations*, 7-11
 - macro, *I/O Operations*, 7-1
 - options word, *I/O Operations*, 7-12
 - programming examples, *I/O Operations*, 7-14
 - program section, *I/O Operations*, 7-9
 - register usage, *I/O Operations*, 7-11
 - state table, *I/O Operations*, 7-1
 - subexpression, *I/O Operations*, 7-6
 - transition, *I/O Operations*, 7-1
- Trace mode, *Indirect*, 2-55
- Trace program, *Debugging*, 8-2
 - listing, *Debugging*, 8-2
 - format, *Debugging*, 8-2
- /TRACE qualifier, *Task Builder*, 11-69
- Tracing fault, *Writing I/O Driver*, 6-12, 6-13
- Track, *RMS-11 Intro*, 2-1
 - See also Placement control
 - bad sector (disk driver), *I/O Drivers*, 4-11
- TRAN\$ macro, *I/O Operations*, 7-1, 7-3
- Transaction file
 - accessing information in, *System Management*, 10-11
 - account blocks, *System Management*, 10-23
 - SAB, *System Management*, 10-23
 - TAB, *System Management*, 10-23
 - UAB, *System Management*, 10-23
 - accumulation fields, *System Management*, 10-25
 - block diagrams, *System Management*, 10-26
 - card reader job data, *System Management*, 10-3
 - card reader spooling block, *System Management*, 10-44
 - crash recovery block, *System Management*, 10-37
 - DATATRIEVE-11, *System Management*, 10-17
- Transaction file (cont'd.)
 - deallocation data, *System Management*, 10-3
 - device allocation data, *System Management*, 10-3
 - device mount data, *System Management*, 10-3
 - device statistics block, *System Management*, 10-50
 - device usage data, *System Management*, 10-3
 - disk accounting block, *System Management*, 10-43
 - dismount data, *System Management*, 10-3
 - example, *System Management*, 10-13
 - header area, *System Management*, 10-24
 - invalid login block, *System Management*, 10-39
 - login data, *System Management*, 10-3
 - offset definitions, *System Management*, 10-24
 - print despooler block, *System Management*, 10-44
 - print job data, *System Management*, 10-3
 - reset accounting block, *System Management*, 10-36
 - scan, *System Management*, 10-15
 - shutdown codes, *System Management*, 10-16
 - size, *System Management*, 10-5
 - status line, *System Management*, 10-16
 - summary of contents, *System Management*, 10-2
 - system account block (SAB), *System Management*, 10-33
 - system data, *System Management*, 10-2
 - system time change, *System Management*, 10-3
 - system time change block, *System Management*, 10-44
 - task data, *System Management*, 10-2
 - terms
 - cylinder crossed count, *System Management*, 10-8
 - fairness count, *System Management*, 10-8
 - hard error, *System Management*, 10-7
 - I/O count, *System Management*, 10-7
 - soft error, *System Management*, 10-7
 - words transferred count, *System Management*, 10-7

- Transaction file (cont'd.)
 - user account block, *System Management*, 10-25
 - user data, *System Management*, 10-2
 - zero CPU intervals, *System Management*, 10-16
- Transfer (starting) address
 - defining, *Program Development*, 2-8
 - system treatment of default, *Program Development*, 4-3, 4-7
- /TRANSFER file qualifier
 - PRINT command, *Batch and Queue*, 2-9
 - SUBMIT command, *Batch and Queue*, 3-15
- Transient failure, *System Management*, 11-2
- Transition table
 - recognition of keyword, *I/O Operations*, 7-9
- .TRANSLATE directive, *Indirect*, 2-99
- Translate Logical Name String directive, *Executive*, 5-286
- Translator processing, *System Management*, 18-14
- Transmit speed
 - TTDRV, *I/O Drivers*, 2-60
- Transparent spooling, *Batch and Queue*, 2-1; *System Management*, 3-1
 - EDT WRITE command, *Batch and Queue*, 2-2
- Trap, *Debugging*, 5-5, A-2; XDT, 3-2
 - See also SST
 - entry codes, XDT, 1-6
 - handling, *Debugging*, 2-9, 5-4
 - instructions
 - BPT, XDT, 1-8
 - EMT, XDT, 1-8, 2-5
 - IOT, XDT, 1-8
 - TRAP, XDT, 1-8
 - SST vector register, *Debugging*, 5-4
 - system, *I/O Drivers*, 1-10
 - asynchronous, *I/O Drivers*, 1-10, 1-11
 - synchronous, *I/O Drivers*, 1-10
 - TE, *Debugging*, 1-6
 - unexpected, *Error Logging*, 1-6
- TRAP instruction, *MACRO-11*, 4-8
- TRAP trap instruction, XDT, 1-8
- Tree, *Task Builder*, 3-33
 - overlay, *Task Builder*, 3-17
 - multiple, *Task Builder*, 3-32
 - defining, *Task Builder*, 3-33
- Tree structure
 - indexed file organization, *RMS-11 Intro*, 3-7
- /TR file switch
 - PRI command, *Batch and Queue*, 2-9
 - SUB command, *Batch and Queue*, 3-15
- /TR keyword
 - MOUNT command, *MCR*, 3-122
- .TRNCL routine
 - truncating file, *I/O Operations*, 4-25
- /TR switch, *Indirect*, 2-33; *Task Builder*, 10-53
 - PIP utility, *Utilities*, 12-32
 - RMSCNV utility, *RMS-11 Utilities*, 4-13
 - RMSIFL utility, *RMS-11 Utilities*, 3-7, 3-11
 - SLP utility, *Utilities*, 13-16
- <TRUE> symbol, *Indirect*, 2-11
- \$TRUNCATE macro, *RMS-11 Macro*, 5-122
- Truncate mode, *Indirect*, 2-55
- TRUNCATE operation, *RMS-11 Macro*, 4-10; *RMS-11 User's Guide*, 1-15; *RMS-11 Intro*, 4-4
 - and shared access, *RMS-11 User's Guide*, 2-6
 - sequential files, *RMS-11 User's Guide*, 3-12
- \$TRUNCATE macro, *RMS-11 Macro*, 5-122
- Truncation
 - print line (LPDRV), *I/O Drivers*, 7-7
 - RMSCNV utility, *RMS-11 Utilities*, 4-13
 - RMSIFL utility, *RMS-11 Utilities*, 3-7
- TS03 magnetic tape unit, *I/O Drivers*, 6-3
- TS11 magnetic tape unit, *I/O Drivers*, 6-4
- /TSK, *Crash Dump Analyzer*, 2-4, 2-7
- TSK file type, *Program Development*, 4-1
- TSKV option, *Task Builder*, 12-38
- \$TSPAR routine, *Writing I/O Driver*, 7-33
- TST attribute, *System Management*, 18-49
- \$TSTBF routine, *Writing I/O Driver*, 1-16, 7-34
- TSV05 magnetic tape unit, *I/O Drivers*, 6-4
- TTDRV, *I/O Drivers*, 2-1
 - features, *I/O Drivers*, 2-1
 - input line length, *I/O Drivers*, 2-4
 - interface support, *I/O Drivers*, 2-3
 - programming hint, *I/O Drivers*, 2-83
 - subfunction bit, *I/O Drivers*, 2-14
 - terminal support, *I/O Drivers*, 2-2
- TTM argument
 - for .LIST/.NLIST, *MACRO-11*, 5-8
- TTSYM system module
 - TTDRV, *I/O Drivers*, 2-36
- TTSYNC
 - TTDRV, *I/O Drivers*, 2-71

- /TTSYNC keyword
 - SET command, MCR, 3-187
 - SET command (VMR), *System Management*, 5-69
- TU10 magnetic tape unit, *I/O Drivers*, 6-3, 6-4
- TU16 magnetic tape unit, *I/O Drivers*, 6-4
- TU45 magnetic tape unit, *I/O Drivers*, 6-4
- TU58 DECTape II, *I/O Drivers*, 5-1
- TU77 magnetic tape unit, *I/O Drivers*, 6-4
- TU80 magnetic tape unit, *I/O Drivers*, 6-4
- TU81 magnetic tape unit, *I/O Drivers*, 6-4
- TUNE.CMD, *Error Logging*, 2-7, A-1
- Two-byte signed integer key, *RMS-11 User's Guide*, 6-4
- Two-byte unsigned binary key, *RMS-11 User's Guide*, 6-5
- TYPE
 - RMSDES utility, *RMS-11 Utilities*, 2-38
- Type-ahead buffer, *Utilities*, C-7
- TTDRV, *I/O Drivers*, 2-79
- /TYPEAHEAD keyword
 - SET command, MCR, 3-187
 - SET command (VMR), *System Management*, 5-69 to 5-70
- TYPE command, *Program Development*, 3-6, 4-6, 7-4; *DCL*, 4-60 to 4-62, 9-51; *Introduction*, 1-14, 3-8
- Type command
 - EDI editor, *Program Development*, 2-12, 2-13; *Utilities*, 7-40
- type command
 - EDI editor, *Program Development*, 2-16
- /TYPE keyword
 - ALLOCATE command, MCR, 3-10
- /TYPE switch
 - RPT, *Error Logging*, 3-5, 3-11
 - See also /INCLUDE qualifier
 - arguments, *Error Logging*, 3-5, 3-11, 3-12
 - processing, *Error Logging*, 4-4

U

- U.ST2, *Writing I/O Driver*, 4-31
- U.STS, *Writing I/O Driver*, 4-30
- U\$\$NCT parameter
 - XEDRV, *I/O Drivers*, 10-2
- U\$\$NPC parameter
 - XEDRV, *I/O Drivers*, 10-2
- U\$\$NRS parameter
 - XEDRV, *I/O Drivers*, 10-2

- U\$\$NTS parameter
 - XEDRV, *I/O Drivers*, 10-2
- UAB, *System Management*, 10-30
 - description, *System Management*, 10-23
 - Resource Accounting, *System Management*, 10-23
- UC.CON
 - contiguous file
 - user-controlled file characteristic, *I/O Operations*, C-4
- UC.DLK
 - file improperly closed
 - user-controlled file characteristic, *I/O Operations*, C-4
- /UCB, *Crash Dump Analyzer*, 2-4, 2-6
- UCB, MCR, 3-94; *System Management*, 5-26; *Writing I/O Driver*, 1-14, 2-4
 - association with SCB, *Writing I/O Driver*, 2-7
 - composite arrangement, *Writing I/O Driver*, 2-13
 - details, *Writing I/O Driver*, 4-25 to 4-34
 - device-dependent values, *Writing I/O Driver*, 4-28
 - device-specific characteristics, *Writing I/O Driver*, 4-31 to 4-32
 - disk geometry calculations, *Writing I/O Driver*, A-2
 - enabling driver to access data structures, *Writing I/O Driver*, 2-3
 - fields, *Writing I/O Driver*, 4-25
 - format, *Writing I/O Driver*, 4-25 to 4-34
 - layout, *Writing I/O Driver*, 4-26
 - length, *Writing I/O Driver*, 4-3
 - stored in DCB, *Writing I/O Driver*, 2-3
 - ordering, *Writing I/O Driver*, 4-3
 - overview, *Writing I/O Driver*, 2-3
 - pointer
 - to associated DCB, *Writing I/O Driver*, 4-28
 - to I/O structures, *Writing I/O Driver*, 2-3
 - to start of this UCB, *Writing I/O Driver*, 4-27
- table
 - composite arrangement, *Writing I/O Driver*, 2-16
 - validation during LOAD, *Writing I/O Driver*, 5-12
- UCBDF\$, *Crash Dump Analyzer*, C-78
- UCBSV
 - use in macro calls, *Writing I/O Driver*, 4-8

- U command, *Debugging*, 2-9
- UDA50 disk controller, *I/O Drivers*, 4-4
- U error
 - invalid forward reference, *MACRO-11*, 2-8
 - .MCALL, *MACRO-11*, 6-22
 - relationship to .ENABL/.DSABL GBL, *MACRO-11*, 5-14
 - relationship to .ENABL/.DSABL MCL or GBL, *MACRO-11*, 5-14
 - undefined symbol, *MACRO-11*, 2-6, 2-14
- UFD, *MCR*, 2-2
 - See also *Directory*
 - See *Directory*
 - and UIC, *MCR*, 2-2
 - contents, *MCR*, 2-2
 - creating, *MCR*, 2-2; *Utilities*, 12-33
 - default, *MCR*, 2-2
 - deleting, *MCR*, 2-2
 - format, *MCR*, 2-2
 - group number, *MCR*, 2-2; *System Management*, A-1
 - Catchall utility task, *System Management*, A-2
 - DCL files, *System Management*, A-2
 - error logging control files, *System Management*, A-2
 - Executive files, *System Management*, A-1
 - Executive utility tasks, *System Management*, A-1
 - FCP files, *System Management*, A-1
 - FCS files, *System Management*, A-2
 - file system utility tasks, *System Management*, A-1
 - Indirect Command Processor files, *System Management*, A-2
 - K-series files, *System Management*, A-2
 - line printer despooler, *System Management*, A-2
 - MCR files, *System Management*, A-1
 - multiuser utility tasks, *System Management*, A-1
 - online configuration, *System Management*, A-2
 - Queue Manager files, *System Management*, A-2
 - RCT files, *System Management*, A-2
 - Resource Accounting tasks, *System Management*, A-2
 - RMD files, *System Management*, A-1

- UFD
 - group number (cont'd.)
 - Shadow Recording, *System Management*, A-2
 - SYSGEN indirect command files, *System Management*, A-2
 - member number, *MCR*, 2-2; *System Management*, A-2
 - object modules, *System Management*, A-2
 - SLP correction files, *System Management*, A-2
 - source modules, *System Management*, A-2
 - protection access codes, *MCR*, 3-209
 - See also *Directory*, *System Management*, A-1
- UFD command
 - See *USER FILE DIRECTORY* command
- /UFD qualifier
 - BRU utility, *Utilities*, 3-24
- /UF switch
 - PIP utility, *Utilities*, 12-33
- UIC, *Batch and Queue*, 3-1; *I/O Operations*, 5-2 ; *MCR*, 2-2, 3-69; *System Management*, 5-24; *DCL*, 4-1, 4-104 to 4-106; *Introduction*, 3-11
- and UFD, *MCR*, 2-2, 3-163, 3-208
- ASCII-binary conversion, *I/O Operations*, 4-7, 4-8
- authorized, *System Management*, 2-1
- changing default, *MCR*, 2-3
- contained in account entry, *System Management*, 2-1, 2-6, 2-11
- default, *MCR*, 2-2
- default for system task, *MCR*, 3-185
- displaying, *System Management*, 2-8, 2-10
- distinction by password, *System Management*, 2-1
- event flags, *MCR*, 3-65
- group
 - access count, *MCR*, 3-65
- login, *MCR*, 2-3
- password, *MCR*, 3-67
- privilege status, *MCR*, 2-3
- protection, *MCR*, 2-2
- read/write defaults, *I/O Operations*, 4-4
- running tasks, *MCR*, 3-139
- setting, *MCR*, 2-2
- slash format, *Batch and Queue*, 3-4
- task
 - declaring, *Task Builder*, 12-39

UIC

- task (cont'd.)
 - specifying, MCR, 3-99
- terminal
 - setting, MCR, 3-188
- user categories
 - group, MCR, 2-3
 - owner, MCR, 2-3
 - system, MCR, 2-3
 - world, MCR, 2-3
- volume
 - specifying, MCR, 3-116, 3-123
- <UIC> symbol, *Indirect*, 2-26
- [uic] switch
 - QUE /LI command, *Batch and Queue*, 2-14
- /UIC keyword
 - HOME command, MCR, 3-82
 - INITVOLUME command, MCR, 3-91
 - INS command (VMR), *System Management*, 5-25
 - INSTALL command, MCR, 3-99
 - MOUNT command, MCR, 3-116, 3-123
 - RUN command, MCR, 3-139, 3-140, 3-145
 - RUN command (VMR), *System Management*, 5-42
 - SET command, MCR, 3-188
 - SET command (VMR), *System Management*, 5-70
- UIC option, *Task Builder*, 12-39
- /UI switch
 - FLX utility, *Utilities*, 8-8
- \$ULA (Universal library), *System Library*, A-1
- ULGF\$S directive, *Executive*, 5-290
- UMAP\$ directive, *Executive*, 5-292
- UMDIO\$ diagnostic function, *I/O Drivers*, 1-34
- UMR
 - programming procedures, *Writing I/O Driver*, 7-2, 7-3
 - SYSGEN question, *System Generation*, 3-56
- Unary operator
 - ˆB, MACRO-11, 5-26
 - ˆC, MACRO-11, 5-29
 - circumflex (ˆ), MACRO-11, 2-4
 - components of a term, MACRO-11, 2-14
 - ˆD, MACRO-11, 5-26
 - double quotation mark ("), MACRO-11, 5-18
 - ˆF, MACRO-11, 5-30
 - minus sign (-), MACRO-11, 2-4
 - ˆO, MACRO-11, 5-26
 - plus sign (+), MACRO-11, 2-4

Unary operator (cont'd.)

- single quotation mark ('), MACRO-11, 5-18
- table of, MACRO-11, 2-4
- treatment of multiple, MACRO-11, 2-14
- use, MACRO-11, 2-3, 2-4
- ˆX, MACRO-11, 5-26
- UNB command
 - See UNBLOCK command
- UNBLOCK command, MCR, 3-210
 - brief description, MCR, 1-6
 - examples, MCR, 3-210
 - format, MCR, 3-210
 - parameters, MCR, 3-210
 - /TERM keyword, MCR, 3-210
- UND C function
 - EDT editor, *Introduction*, 2-9
- Undefined record format, *RMS-11 User's Guide*, 1-10, 1-11, 2-17; *RMS-11 Intro*, 3-4
- Underline (_) prompt
 - ODT, *Program Development*, 5-2
- Underscore character (_), DCL, 1-14
- Underscore command (_), *Debugging*, 2-5, 4-5; XDT, 2-11
- UND L function
 - EDT editor, *Introduction*, 2-9
- UND W function
 - EDT editor, *Introduction*, 2-9
- UNF command
 - See also UNFIX command
 - VMR
 - definition, *System Management*, 5-80
 - example, *System Management*, 5-80
 - format, *System Management*, 5-80
 - keywords
 - /REG, *System Management*, 5-80
 - /RON, *System Management*, 5-80
 - parameters, *System Management*, 5-80
- UNFIX command, MCR, 3-211; DCL, 7-41, 9-52
 - brief description, MCR, 1-6
 - examples, MCR, 3-211
 - formats, MCR, 3-211
 - keywords
 - /REG, MCR, 3-211
 - /RON, MCR, 3-211
 - parameters, MCR, 3-211
 - VMR
 - See UNF command
- UNIBUS
 - run specifications, MCR, 3-95

- UNIBUS (cont'd.)
 - switched bus, *Writing I/O Driver*, 1-18
- UNIBUS mapping register
 - See UMR
- UNIBUS Run Mask
 - See URM
- UNIBUS switch driver, *I/O Drivers*, 14-1
- AST
 - CPU disconnect, *I/O Drivers*, 14-3, 14-5
 - failed CPU response, *I/O Drivers*, 14-3
 - other CPU connect, *I/O Drivers*, 14-3
 - power failure, *I/O Drivers*, 14-3
 - switched to other CPU, *I/O Drivers*, 14-3
 - attaching task, *I/O Drivers*, 14-2
 - error return, *I/O Drivers*, 14-8
 - FORTTRAN usage, *I/O Drivers*, 14-9
 - function code list, *I/O Drivers*, B-14
 - recovery from system power failure, *I/O Drivers*, 14-6
 - standard functions, *I/O Drivers*, 14-2
 - status return, *I/O Drivers*, 14-7
 - UNIBUS recovery from power failure, *I/O Drivers*, 14-7
 - use, *I/O Drivers*, 14-2
- Unit
 - making accessible, *Writing I/O Driver*, 5-6
 - placing on line, *Writing I/O Driver*, 5-7
- Unit Control Block
 - See UCB
- Unit information
 - .PRSDV routine, *I/O Operations*, 4-15
- Unit number field, *I/O Operations*, 2-32
- Unit-record device, *RMS-11 Macro*, 3-2, 5-20, 5-37, 5-43, 5-77, 5-88, 5-104, 5-111, 5-117; *RMS-11 User's Guide*, A-1; *RMS-11 Intro*, 3-5
- RMSCNV utility, *RMS-11 Utilities*, 4-5
- UNITS option, *Task Builder*, 12-40
- Unit status
 - change
 - entry point, *Writing I/O Driver*, 4-63, 4-64
 - overview, *Writing I/O Driver*, 2-6
 - extension 2, *Writing I/O Driver*, 4-31
- Universal library, *Error Logging*, A-1, A-5
 - command procedure, *Indirect*, 2-33
 - creating, *System Library*, A-1
- ERRLOG.ULB, *Error Logging*, 2-7, 3-3, 3-29
- Universal library file
 - module
 - inserting, *Utilities*, 10-21
 - replacing, *Utilities*, 10-27
- Unknown interrupt event
 - subpacket information, *Error Logging*, 4-67
- Unknown status flag, *System Management*, 4-13
- Unlabeled tape, *I/O Operations*, G-15
 - block size, *I/O Operations*, G-15
 - end-of-volume (tape driver), *I/O Drivers*, 6-15
- UNL command
 - See also UNLOAD command
 - VMR
 - definition, *System Management*, 5-81
 - example, *System Management*, 5-81
 - format, *System Management*, 5-81
 - parameter, *System Management*, 5-81
 - restrictions, *System Management*, 5-81
 - /VEC keyword, *System Management*, 5-81
- UNLINK command, *System Management*, 4-32
 - example, *System Management*, 4-32
 - format, *System Management*, 4-32
- /UNL keyword
 - MOUNT command, *MCR*, 3-116
- UNLOAD command, *MCR*, 3-212
 - brief description, *MCR*, 1-6
 - example, *MCR*, 3-212
 - format, *MCR*, 3-212
 - keywords
 - /EXP, *MCR*, 3-212
 - /VEC, *MCR*, 3-212
 - parameter, *MCR*, 3-212
 - VMR
 - See UNL command
- UNLOCK command, *DCL*, 4-71 to 4-72, 9-52
- Unlock Group Global Event Flags directive, *Executive*, 5-290
- \$UNLPG (Unlock page), *System Library*, 8-44
- Unmap Address Window directive, *Executive*, 5-292
- /UNOVR keyword
 - COMMAND LINE INTERPRETER
 - command, *MCR*, 3-45
- Unsave command
 - EDI editor, *Utilities*, 7-40
- Unsaved system
 - bootstrapping and saving, *System Generation*, 4-2 to 4-3

- Unsaved system (cont'd.)
 - copying, *System Generation*, 4-1
 - definition, *System Generation*, 1-12
 - saving with /WB switch, *System Generation*, 4-3
- UNS command
 - See UNSTOP command
- Unsolicited input timeout
 - SYSGEN question, *System Generation*, 3-31
- UNSTOP command, MCR, 2-213
 - brief description, MCR, 1-7
 - examples, MCR, 2-213
 - format, MCR, 2-213
 - parameter, MCR, 2-213
 - /TERM keyword, MCR, 2-213
- Unstop Task directive, *Executive*, 5-294
- /UN switch
 - PIP utility, *Utilities*, 12-34
- UNTIL statement
 - CFL, *Error Logging*, 5-34
- Unt parameter
 - ALUN\$ macro, *I/O Drivers*, 1-18
- UPD argument to ORG\$ macro, RMS-11 Macro, 2-3
- \$UPDATE macro, RMS-11 Macro, 5-124
- UPDATE operation, RMS-11 Macro, 4-11; RMS-11 User's Guide, 1-15; RMS-11 Intro, 4-4
 - and ODL files, RMS-11 User's Guide, 8-5
 - and record size, RMS-11 User's Guide, 2-16
 - and shared access, RMS-11 User's Guide, 2-6, 2-10
 - and stream records, RMS-11 User's Guide, 2-17
 - changeable keys, RMS-11 User's Guide, 6-1
 - declaring with ORG\$ macro, RMS-11 Macro, 2-3
 - deferred write, RMS-11 User's Guide, 7-9
 - duplicate keys, RMS-11 User's Guide, 6-9
 - indexed files, RMS-11 User's Guide, 5-14, 7-6, 7-9
 - move mode, RMS-11 User's Guide, 3-1
 - indexed files, RMS-11 User's Guide, 7-7 to 7-8
 - relative files, RMS-11 User's Guide, 4-12 to 4-13
 - sequential files, RMS-11 User's Guide, 3-13
 - relative files, RMS-11 User's Guide, 4-12
 - sequential files, RMS-11 User's Guide, 3-12
- \$UPDATE macro, RMS-11 Macro, 5-124
- /UPDATE qualifier
 - START/ERROR_LOG command, *Error Logging*, 2-6
- Update UICs and Default Directory function (GIN\$), *Executive*, 5-124
- /UPD switch
 - BAD utility, *Utilities*, 2-5
- Uppercase On/Off command
 - EDI editor, *Utilities*, 7-40
- /UPPERCASE qualifier
 - INITIALIZE/PROCESSOR command, *System Management*, 3-24
 - PRINT command, *Batch and Queue*, 2-3
 - SET QUEUE command, *Batch and Queue*, 2-19
- /UP switch
 - PIP utility, *Utilities*, 12-34
 - VFY utility, *Utilities*, 14-7
- URM, *Writing I/O Driver*, 1-18, 4-36
- User Account Block
 - See UAB
- User buffer, RMS-11 User's Guide, 1-14
- USERCM, *Error Logging*, 3-3
- User data space
 - SYSGEN question, *System Generation*, 3-25
- User file attributes
 - header area
 - file characteristics, *I/O Operations*, C-4
- User File Directory
 - See UFD
- USER FILE DIRECTORY command, MCR, 3-208
 - brief description, MCR, 1-5
 - creating UFD, MCR, 2-4
 - example, MCR, 3-209
 - format, MCR, 3-208
 - keywords
 - /ALLOC, MCR, 3-208
 - /DEL, MCR, 3-208
 - /OWNER, MCR, 3-209
 - /PRO, MCR, 3-209
 - parameters, MCR, 3-208
- User file label
 - tape, *I/O Operations*, G-8
- User Identification Code
 - See UIC
- Userid parameter
 - IO.STP function (LADRV), *I/O Drivers*, 12-27
- /USER keyword
 - DISMOUNT command, MCR, 3-61

- User login command file
 - See LOGIN.CMD file
- User logout command file
 - See LOGOUT.CMD file
- User mode, *Debugging*, 3-2; *Task Builder*, 2-15
 - command, *Debugging*, 2-9
 - I- and D-space, *Task Builder*, 7-1
 - setting, *Debugging*, 2-9
- User-provided interlocks, *RMS-11 User's Guide*, 3-6
 - sharing declaration, *RMS-11 User's Guide*, 2-7
- /USER qualifier
 - \$PRINT card, *Batch and Queue*, 3-25
 - \$SUBMIT card, *Batch and Queue*, 3-24
- Users
 - displaying list of, *DCL*, 8-12 to 8-13
- User-supplied driver
 - definition, *System Generation*, 1-13
 - SYSGEN question, *System Generation*, 3-68
- User-tailored Executive
 - definition, *System Generation*, 1-13
- User volume label tape, *I/O Operations*, G-3
- User-written module
 - bit-to-text translation, *Error Logging*, 4-27, 4-33
 - coroutine statement, *Error Logging*, 4-32
 - determining error type, *Error Logging*, 4-32
 - exiting, *Error Logging*, 4-34
 - intermodule variables, *Error Logging*, 4-32
 - local work variables, *Error Logging*, 4-31
 - naming requirements, *Error Logging*, 4-28
 - notes requirement, *Error Logging*, 4-33
 - procedures, *Error Logging*, 4-28 to 4-34
 - register declaration, *Error Logging*, 4-30
 - SUBPACKET declaration, *Error Logging*, 4-29
- %USR\$STRING
 - CFL user I/O function, *Error Logging*, 5-25
- \$USRTB global label, *Writing I/O Driver*, 4-3
- USTP\$ directive, *Executive*, 5-294
- Utility, *RMS-11 User's Guide*, 1-12, 2-11; *Introduction*, 5-1
 - See also RMSBCK, RMSCNV, RMSDEF, RMSDES, RMSDSP, RMSIFL, RMSRST
 - command line general format, *Utilities*, 1-3
 - DEQ, *RMS-11 User's Guide*, 3-5, 4-4, 6-26
 - editing, *Utilities*, 1-2
 - file manipulation, *Utilities*, 1-3

Utility (cont'd.)

- file specification
 - default, *Utilities*, 1-4
 - format, *Utilities*, 1-4
- indirect command file, *Utilities*, 1-9
- initial allocation, *RMS-11 User's Guide*, 3-4, 4-4, 6-26
- invoking, *Utilities*, 1-6
 - DCL, *Utilities*, 1-6
 - installed, *Utilities*, 1-7, 1-8
 - MCR, *Utilities*, 1-6
- key segments, *RMS-11 User's Guide*, 6-7
- listed, *Utilities*, 1-1
- MRN, *RMS-11 User's Guide*, 4-4
- placement control, *RMS-11 User's Guide*, 6-14
- program maintenance, *Utilities*, 1-2, 1-3, 15-1
- programming, *Utilities*, 1-2, 1-3
- RMSBCK, *RMS-11 User's Guide*, 1-12
- RMSCNV, *RMS-11 User's Guide*, 1-12
 - populating files, *RMS-11 User's Guide*, 6-26 to 6-27
- RMSDES, *RMS-11 User's Guide*, 1-12, 1-18
 - bucket fill size, *RMS-11 User's Guide*, 6-29
 - bucket size, *RMS-11 User's Guide*, 4-3
- RMSDSP, *RMS-11 User's Guide*, 1-12, 1-19
- RMSIFL, *RMS-11 User's Guide*, 1-12
- RMSRST, *RMS-11 User's Guide*, 1-12
- spawning, *Executive*, 4-5
- volume maintenance, *Utilities*, 1-2, 1-3
- Utility programs, *Program Development*, 1-8, 1-9

V

- Val parameter
 - CVADF: subroutine
 - K-series, *I/O Drivers*, 13-12
 - LADRV, *I/O Drivers*, 12-8
 - FLT16: subroutine
 - K-series, *I/O Drivers*, 13-19
 - LADRV, *I/O Drivers*, 12-15
- VALUE numeric data type
 - CFL, *Error Logging*, 5-5
- Value parameter
 - IO.SMC function (TTDRV), *I/O Drivers*, 2-63
- Variable, *Debugging*, 2-1; *XDT*, 2-10
 - #symbol
 - list, *XDT*, B-1

Variable (cont'd.)

- testing, *Indirect*, 2-92
- Variable, named
 - CFL, *Error Logging*, 5-8
- Variable-length record block boundary PUT\$ macro, *I/O Operations*, 3-27
- Variable-length record format, *RMS-11 User's Guide*, 1-11, 2-15; *RMS-11 Intro*, 3-2 and medium, *RMS-11 User's Guide*, 2-15
- Variable Receive Data directive, *Executive*, 5-296
- Variable Receive Data or Exit directive, *Executive*, 5-300
- Variable Receive Data or Stop directive, *Executive*, 5-298
- Variable Send, Request, and Connect directive, *Executive*, 5-304
- Variable Send Data directive, *Executive*, 5-302
- Variable with fixed control
 - See VFC
- VARRAY option, *Task Builder*, 12-41
- VAX/VMS
 - remote access, *RMS-11 User's Guide*, B-1, B-3
- VAX-11 host
 - referring to device names, *System Generation*, 2-21
- VAX-11 RSX
 - file transfer using MFT, *Utilities*, C-1
- VBN, *RMS-11 User's Guide*, 8-11; *RMS-11 Intro*, 2-4
 - access, *RMS-11 User's Guide*, 1-20; *RMS-11 Intro*, 3-12, 4-7
 - areas, *RMS-11 User's Guide*, 6-10
- /VB switch
 - CMP utility, *Utilities*, 4-4
- VCB
 - composite arrangement, *Writing I/O Driver*, 2-17
- V command, *Debugging*, 2-9
 - ZAP utility, *Utilities*, 15-19
- /VEC keyword
 - LOA command (VMR), *System Management*, 5-30
 - LOAD command, *MCR*, 3-104
 - UNL command (VMR), *System Management*, 5-81
 - UNLOAD command, *MCR*, 3-212
- Vector, *Writing I/O Driver*, 1-1
 - address
 - BRUSYS default, *System Generation*, 2-7

Vector (cont'd.)

- addresses
 - definition of in Driver Dispatch Table, *Writing I/O Driver*, 2-6
- assignment
 - error, *Writing I/O Driver*, 5-8
 - setting, *Writing I/O Driver*, 5-7
- autoload, *Task Builder*, 3-22, 3-25, 4-4, B-20 to B-21
 - I- and D-space task, *Task Builder*, 7-10
- definition, *System Generation*, 1-13
- determining, *System Generation*, 2-1
- floating assignment algorithm, *System Generation*, D-1
- interrupt, *Writing I/O Driver*, 1-1, 1-13
 - changing value, *System Management*, 4-29
- mode-switching, *Task Builder*, 8-1
 - user-written, *Task Builder*, 8-25
- reentry register, *Debugging*, 5-3, 5-6
- SST register, *Debugging*, 2-9
- Vectored Executive, *Writing I/O Driver*, 1-20 to 1-22
- Vectoring, *Writing I/O Driver*, 1-20 to 1-22
 - drivers, *Writing I/O Driver*, 1-21
- Verification
 - device, *Utilities*, 2-7
 - of file structure, *Utilities*, 14-1
 - task image file content
 - See ZAP utility
- VERIFY command
 - IOX, *System Management*, 12-58
 - Command mode, *System Management*, 12-58
 - examples, *System Management*, 12-58, 12-68
 - function, *System Management*, 12-5
 - Interactive mode, *System Management*, 12-58
 - logical names, *System Management*, 12-58
 - parameter commands for, *System Management*, 12-58
 - specifying block range, *System Management*, 12-45
- Verify On/Off command
 - EDI editor, *Utilities*, 7-42
- /VERIFY qualifier
 - BRU utility, *Utilities*, 3-25
- /VERIFY switch
 - DSC utility, *Utilities*, 6-17

- Version
 - file, *RMS-11 User's Guide*, A-3, A-5
 - RMSDES utility, *RMS-11 Utilities*, 2-16
- Version number
 - decimal, MCR, 2-5
 - file, DCL, 4-3
 - default, DCL, 4-4
 - octal, MCR, 2-5
 - RMSBCK utility, *RMS-11 Utilities*, 6-5
 - RMSCNV utility, *RMS-11 Utilities*, 4-9
 - RMSDEF utility, *RMS-11 Utilities*, A-5
 - RMSDSP utility, *RMS-11 Utilities*, 5-5
 - RMSIFL utility, *RMS-11 Utilities*, 3-5
 - specifying for file, MCR, 2-5
- /VERSION option
 - command
 - SET HOST/DTE, *Utilities*, C-5
 - <VERSN> symbol, *Indirect*, 2-26
- Vertical format control
 - See Vfc parameter
- /VE switch
 - FLX utility, *Utilities*, 8-8
 - FMT utility, *Utilities*, 9-5
- VFC
 - LPDRV, *I/O Drivers*, 7-6
 - character, *I/O Drivers*, 7-6
 - double space, *I/O Drivers*, 7-6
 - format
 - internal vertical, *I/O Drivers*, 7-6
 - internal, *I/O Drivers*, 7-6
 - overprint, *I/O Drivers*, 7-6
 - page eject, *I/O Drivers*, 7-6
 - prompting output, *I/O Drivers*, 7-6
 - single space, *I/O Drivers*, 7-6
 - TTDRV, *I/O Drivers*, 2-77
 - character table, *I/O Drivers*, 2-77
 - double space, *I/O Drivers*, 2-77
 - internal vertical format, *I/O Drivers*, 2-77
 - overprint, *I/O Drivers*, 2-77
 - page eject, *I/O Drivers*, 2-77
 - prompting output, *I/O Drivers*, 2-77
 - single space, *I/O Drivers*, 2-77
- Vfc parameter
 - QIO\$ macro (VTDRV), *I/O Drivers*, 3-4
 - standard function (LPDRV), *I/O Drivers*, 7-4
 - TTDRV
 - IO.RPR function, *I/O Drivers*, 2-43
 - TTDRV
 - general, *I/O Drivers*, 2-13
 - IO.CCO function, *I/O Drivers*, 2-26
- Vfc parameter
 - TTDRV (cont'd.)
 - IO.WAL function, *I/O Drivers*, 2-49
 - IO.WBT function, *I/O Drivers*, 2-52
 - VFC record format, *RMS-11 User's Guide*, 1-11, 2-16 ; *RMS-11 Intro*, 3-2
 - /VFILL keyword
 - SET command, MCR, 3-189
 - SET command (VMR), *System Management*, 5-70
 - VFY utility
 - command line, *Utilities*, 14-2, A-33
 - messages, *Utilities*, 14-9
 - error, *Utilities*, 14-11
 - format, *Utilities*, 14-9
 - operation mode, *Utilities*, 14-7
 - switches
 - /DE, *Utilities*, 14-3
 - /DV, *Utilities*, 14-3
 - /FR, *Utilities*, 14-4
 - /HD, *Utilities*, 14-4
 - /AL subswitch, *Utilities*, 14-4
 - /ID, *Utilities*, 14-5
 - /LI, *Utilities*, 14-5
 - /LO, *Utilities*, 14-5
 - /RC, *Utilities*, 14-6
 - /RE, *Utilities*, 14-6
 - /UP, *Utilities*, 14-7
 - validity check, *Utilities*, 14-7
 - /VI keyword
 - HOME command, MCR, 3-82
 - INITVOLUME command, MCR, 3-91
 - MOUNT command, MCR, 3-116, 3-123
- Virtual address, *Task Builder*, 2-12
- Virtual address space, *Task Builder*, 2-15
 - reducing use, *Task Builder*, 3-1
- Virtual array
 - example, *Task Builder*, 12-42 to 12-43
 - specifying, *Task Builder*, 12-41
- Virtual block, *RMS-11 Intro*, 2-3
 - file device, *I/O Operations*, 1-7
 - file extension, *I/O Operations*, 2-9
- Virtual block number
 - See also VBN
 - READ\$ macro, *I/O Operations*, 3-31
 - WRITE\$ macro, *I/O Operations*, 3-34
- Virtual I/O, *I/O Drivers*, 1-2
 - definition, *System Management*, 15-6
- Virtual memory
 - allocating, *MACRO-11*, F-1
- Virtual memory management, *System Library*, 8-1

Virtual memory management (cont'd.)

See also Memory management

address conversion (\$CVRL), *System Library*, 8-34

allocate (\$ALVRT), *System Library*, 8-23

allocate small virtual block (\$ALSVB),
System Library, 8-26

core blocks request (\$RQVCB), *System Library*, 8-29

\$CVRL routine, *System Library*, 8-34

error-handling, *System Library*, 8-2

find page (\$FNDPG), *System Library*, 8-38

initialize (\$INIVM), *System Library*, 8-5

lock page (\$LCKPG), *System Library*, 8-42

memory storage

allocate block (\$ALBLK), *System Library*,
8-10

extend task (\$EXTSK), *System Library*,
8-18

get core (\$GTCOR), *System Library*,
8-12, 8-15

page lock (\$CVLOK), *System Library*, 8-31

read page (\$RDPAG), *System Library*, 8-36

task-building requirements, *System Library*,
8-4

unlock page (\$UNLPG), *System Library*,
8-44

write-marked page (\$WRMPG), *System Library*, 8-40

write page (\$WRPAG), *System Library*,
8-20

Virtual Monitor Console Routine

See VMR

VIRTUAL option, *System Management*, 15-6
default extent size for, *System Management*,
15-6

MOUNT /CACHE command, MCR, 3-112

SET /CACHE command, MCR, 3-160

Virtual terminal

creating, *Executive*, 5-56

deallocating, *Executive*, 5-78

default buffer

SYSGEN question, *System Generation*,
3-30

SYSGEN question, *System Generation*, 3-30

Virtual terminal driver

See VTDRV

Virtual-to-logical block

mapping optimizations, *RMS-11 User's Guide*, 8-11

VMLIB.OLB (Virtual memory management library), *Program Development*, 1-11

VMR

See also Command format

changing system parameters, *System Generation*, 4-9

command

abbreviations, *System Management*, 5-4

categories, *System Management*, 5-1

description format, *System Management*,
5-7

descriptions, *System Management*, 5-7
to 5-81

keywords

overview, *System Management*, 5-4

names, *System Management*, 5-4

parameters, *System Management*, 5-4

specifying, *System Management*, 5-4

syntax, *System Management*, 5-4

command file

See SYSVMR.CMD file

defaults

device, *System Management*, 5-5

directory, *System Management*, 5-6

file types, *System Management*, 5-6

version number, *System Management*,
5-6

definition, *System Management*, 5-1

description, *System Management*, 1-12

diagnostic messages, *System Generation*,
3-82

error messages, *System Management*, 5-82
to 5-105

extending command lines, *System Management*, 5-5

file specifications

components, *System Management*, 5-5

device name, *System Management*, 5-5

directory, *System Management*, 5-6

file names, *System Management*, 5-6

file type, *System Management*, 5-6

format, *System Management*, 5-5

/IM switch, *System Management*, 5-6

specifying, *System Management*, 5-5

version number, *System Management*,
5-6

range, *System Management*, 5-6

including comments, *System Management*,
5-5

introduction, *System Management*, 5-1

invoking, *System Management*, 5-3

prompt, *System Management*, 5-3

relationship to MCR, *System Management*,
5-1

VMR (cont'd.)

- running, *System Management*, 5-2, 5-3 to 5-4
 - with indirect command file, *System Management*, 5-3
- system image file
 - assigning SY and LB, *System Management*, 5-2
 - bootstrap, *System Management*, 5-1
 - relationship to symbol definition file, *System Management*, 5-2
- VMR commands
 - ALTER, *System Management*, 5-8
 - ASSIGN, *System Management*, 5-9
 - CANCEL, *System Management*, 5-11
 - CONFIGURATION, *System Management*, 5-12
 - DEVICES, *System Management*, 5-16
 - FIX, *System Management*, 5-18
 - INSTALL, *System Management*, 5-20
 - LOAD, *System Management*, 5-29
 - LUNS, *System Management*, 5-32
 - PARTITION DEFINITIONS, *System Management*, 5-33
 - REASSIGN, *System Management*, 5-36
 - REDIRECT, *System Management*, 5-37
 - REMOVE, *System Management*, 5-38
 - RUN, *System Management*, 5-40
 - SAVE, *System Management*, 5-44
 - SET, *System Management*, 5-46
 - TASKLIST, *System Management*, 5-76
 - TIME, *System Management*, 5-78
 - UNFIX, *System Management*, 5-80
 - UNLOAD, *System Management*, 5-81
- VMS_TIME data type
 - CFL, *Error Logging*, 5-8
- VMS DCL, *DCL*, 1-24
- Volatile registers, *Crash Dump Analyzer*, 3-1
 - dump, *Crash Dump Analyzer*, 3-2 to 3-3
- /VOL keyword
 - MOUNT command, MCR, 3-123
- Volume, *DCL*, 4-1, 5-1 to 5-10
 - accessing
 - dismounted, MCR, 3-108
 - allocating, MCR, 3-116, 3-122
 - backing up, *Utilities*, 3-1; *DCL*, 5-91
 - See also BRU utility
 - See also DSC utility
 - bit density, MCR, 3-87, 3-112
 - compressing, *Utilities*, 6-4

Volume (cont'd.)

- DECTape
 - initializing, MCR, 3-83
- definition of, MCR, 2-1
- directory listing, *Utilities*, 8-7
- dismounting, MCR, 3-60
- displaying free space
 - PIP utility, *Utilities*, 12-17
 - VFY utility, *Utilities*, 14-4
- displaying information, MCR, 3-116, 3-123
- DOS-11 format
 - accessing, MCR, 2-1
- examining data, *Utilities*, 5-1
- file
 - deleting, *Utilities*, 8-7
 - recovering lost, *Utilities*, 14-5
 - transferring, *Utilities*, 8-5
- Files-11, MCR, 3-30; *DCL*, 5-4
 - home block, MCR, 3-79
 - initializing, MCR, 3-83 to 3-93; *DCL*, 5-67
- Files-11 structure, MCR, 2-1
- foreign, MCR, 2-1
 - accessing, MCR, 2-2
 - displaying information, MCR, 3-116, 3-123
 - mounting, MCR, 2-1, 3-114, 3-121
 - translating to Files-11, MCR, 2-1
- formatting
 - FLX utility, *Utilities*, 8-4
 - FMT utility, *Utilities*, 9-1
- home block, MCR, 3-113
- identifier, MCR, 3-109, 3-118, 3-124
- index file
 - unlocking, MCR, 3-116
- initializing, MCR, 2-1
 - BRU utility, *Utilities*, 3-18
 - FLX utility, *Utilities*, 8-2
- IOX exercise
 - selecting, *System Management*, 12-5
- label, MCR, 3-61, 3-84, 3-114, 3-121;
DCL, 1-15
- listing File ID, *Utilities*, 14-5
- locating bad block
 - BAD utility, *Utilities*, 2-1
 - FMT utility, *Utilities*, 9-1
 - VFY utility, *Utilities*, 14-6
- locking, MCR, 3-113, 3-120
- magnetic tape
 - labelling, MCR, 3-120
 - protecting, MCR, 3-121
 - record, MCR, 3-122

Volume (cont'd.)

- mounted, *DCL*, 5-10
 - mounting, *MCR*, 2-4, 3-109; *DCL*, 5-46 to 5-62
 - Files-11, *MCR*, 3-110
 - magnetic tape, *MCR*, 3-109
 - nonprivileged, *MCR*, 3-108
 - shared, *MCR*, 3-115, 3-122
 - mounting from batch job, *Batch and Queue*, 3-13
 - mounting with ACP, *MCR*, 3-113, 3-114, 3-119, 3-121
 - nonshared, *MCR*, 3-108
 - preparing for use with Files-11, *MCR*, 2-1
 - private, *DCL*, 5-10, 5-41 to 5-45, 5-50
 - mounting, *MCR*, 3-113
 - protecting, *MCR*, 3-87, 3-115, 3-122
 - public, *MCR*, 3-108, 3-115, 3-122; *DCL*, 5-10, 5-50
 - dismounting, *MCR*, 3-61
 - mounting, *MCR*, 3-116, 3-122
 - setting, *MCR*, 3-116, 3-122
 - record type, *MCR*, 3-120
 - recovering
 - lost block, *Utilities*, 14-6
 - lost file, *Utilities*, 14-5
 - space, *Utilities*, 6-4
 - restoring, *Utilities*, 3-1; *DCL*, 5-91
 - RT-11 format
 - accessing, *MCR*, 2-1
 - shareable, *DCL*, 5-10, 5-50
 - shared, *MCR*, 3-108
 - UIC
 - specifying, *MCR*, 3-116, 3-123
 - unloading, *MCR*, 3-114, 3-121
 - verifying, *Utilities*, 14-1
 - block, *Utilities*, 14-6
 - virtual, *MCR*, 3-114, 3-121
- /VOLUME_LABEL** qualifier
- ANALYZE/ERROR_LOG** command, *Error Logging*, 3-12
 - See also **/VOLUME** switch
- Volume** access
- protection codes
 - specifying default, *MCR*, 3-82
 - types of
 - initializing volumes with, *MCR*, 3-91
 - specifying default for mounted volume, *MCR*, 3-115
- VOLUMECHECK** command
- IOX, *System Management*, 12-60

VOLUMECHECK command

- IOX (cont'd.)
 - initial default, *System Management*, 12-60
 - verifying file structure, *System Management*, 12-6
- Volume Control Block**
 - See VCB
- Volume** default extend size, *I/O Operations*, 2-9
- Volume** label
 - tape, *I/O Operations*, G-1
 - tape user, *I/O Operations*, G-3
- Volume** protection
 - access codes
 - specifying default, *MCR*, 3-82
- Volume** sets
 - rewinding, *I/O Operations*, 5-6
- /VOLUME** switch
 - RPT, *Error Logging*, 3-12
 - See also **/VOLUME_LABEL** qualifier
 - processing, *Error Logging*, 4-4
- Volume** valid processing, *Writing I/O Driver*, 4-65
- VRCD\$** directive, *Executive*, 5-296
 - summary, *I/O Operations*, F-5
- VRCS\$** directive, *Executive*, 5-298
 - summary, *I/O Operations*, F-5
- VRCX\$** directive, *Executive*, 5-300
 - summary, *I/O Operations*, F-6
- V** register, *Debugging*, 2-6, 5-4
- VSDA\$** directive, *Executive*, 5-302
 - summary, *I/O Operations*, F-6
- VSECT** option, *Task Builder*, 5-67, 12-44
- VSRC\$** directive, *Executive*, 5-304
 - summary, *I/O Operations*, F-7
- VT05B** terminal, *I/O Drivers*, 2-7
- VT100-series** terminal, *DCL*, 3-17
 - special keys, *DCL*, 3-18
- VT100** terminal, *I/O Drivers*, 2-8;
Introduction, 1-1, 1-3
- VT101** terminal, *I/O Drivers*, 2-8
- VT102** terminal, *I/O Drivers*, 2-8
- VT105** terminal, *I/O Drivers*, 2-8
- VT131** terminal, *I/O Drivers*, 2-8
- VT200-series** terminal, *DCL*, 3-1, 3-17
 - special keys, *DCL*, 3-18
- VT220** terminal, *I/O Drivers*, 2-8;
Introduction, 1-1, 1-4
- VT240** terminal, *I/O Drivers*, 2-8
- VT241** terminal, *I/O Drivers*, 2-8
- VT50H** terminal, *I/O Drivers*, 2-7

- VT50 terminal, *I/O Drivers*, 2-7
 - VT52 terminal, *I/O Drivers*, 2-7; *DCL*, 3-17
 - VT55 terminal, *I/O Drivers*, 2-7
 - VT61 terminal, *I/O Drivers*, 2-7
 - VTDRV, *I/O Drivers*, 3-1
 - /VTLOGON keyword
 - SET command, *MCR*, 3-189
- W**
-
- WAIT\$ macro
 - file processing, *I/O Operations*, 3-2
 - block I/O completion, *I/O Operations*, 3-36
 - format file operations, *I/O Operations*, 3-36
 - with READ\$ and WRITE\$, *I/O Operations*, 3-36
 - with READ\$ or WRITE\$, *I/O Operations*, 3-30
 - WAIT command
 - IOX, *System Management*, 12-61
 - EXECUTE command
 - effect on, *System Management*, 12-61
 - initial default, *System Management*, 12-61
 - system resources
 - effect on, *System Management*, 12-61
 - .WAIT directive, *Indirect*, 2-101
 - Wait-for buffer
 - K-series, *I/O Drivers*, 13-22
 - Wait for Logical OR of Event Flags directive, *Executive*, 5-309
 - Wait for Significant Event directive, *Executive*, 5-307
 - Wait for Single Event Flag directive, *Executive*, 5-311
 - /WAIT keyword
 - MOUNT command, *MCR*, 3-117, 3-124
 - WAIT operation, *RMS-11 User's Guide*, 1-14, 1-15
 - /WAIT qualifier
 - MOUNT command, *Batch and Queue*, 3-14
 - /WARNINGS qualifier, *Task Builder*, 11-70
 - /WB keyword
 - INS command (VMR), *System Management*, 5-26
 - INSTALL command, *MCR*, 3-96, 3-99
 - SAVE command, *MCR*, 3-149
 - /WCHK keyword
 - SET command, *MCR*, 3-189
 - SET command (VMR), *System Management*, 5-70
 - W command, *Debugging*, 2-9, 6-2, 6-3
 - WDB, *Executive*, 3-10, 5-131; *Task Builder*, 2-22
 - assigning values, *Executive*, 3-19
 - format, *Executive*, 3-15
 - generating, *Executive*, 3-16, 3-18
 - WDBBK\$, *Executive*, 3-16
 - WDBDF\$, *Executive*, 3-16
 - .WDFPP routine
 - writing \$\$FSR2 default file protection word, *I/O Operations*, 4-6
 - .WDFR routine
 - writing \$\$FSR2 default directory string, *I/O Operations*, 4-3
 - .WDFUI routine
 - writing default UIC, *I/O Operations*, 4-4
 - /WD switch
 - DMP utility, *Utilities*, 5-7
 - .WEAK directive, *MACRO-11*, 5-43
 - summary, *MACRO-11*, 5-3
 - supported only in RT-11, *MACRO-11*, 5-44
 - .WFOWN routine, write \$\$FSR2 file owner word, *I/O Operations*, 4-7
 - /WF switch
 - RMSCNV utility, *RMS-11 Utilities*, 4-14
 - WHILE statement
 - CFL, *Error Logging*, 5-34
 - /WIDE qualifier, *Task Builder*, 11-71
 - ANALYZE/ERROR_LOG command, *Error Logging*, 3-27
 - See also /WIDTH switch
 - arguments, *Error Logging*, 3-27
 - WIDTH print field width option
 - CFL, *Error Logging*, 5-5
 - /WIDTH switch
 - RPT, *Error Logging*, 3-27
 - See also /WIDE qualifier
 - arguments, *Error Logging*, 3-27
 - processing, *Error Logging*, 4-4
 - Wildcard, *Introduction*, 3-1 to 3-3
 - Wildcard character, *RMS-11 Intro*, 4-1; *MCR*, 2-6; *Utilities*, 3-7, 3-9, 12-7
 - context (F11ACP)
 - FNB, *I/O Operations*, H-11
 - example of use in command line, *MCR*, 2-6

- Wildcard character (cont'd.)
 - file name, *I/O Operations*, 4-18
 - file specification, *RMS-11 User's Guide*, A-2 to A-3 ; *DCL*, 4-6 to 4-8
 - BRU utility, *Utilities*, 3-7, 3-9
 - FLX utility, *Utilities*, 8-3
 - PIP utility, *Utilities*, 12-7
 - file type, *I/O Operations*, 4-18
 - loops, *RMS-11 User's Guide*, A-4
 - percent sign (%), *Utilities*, 12-7
- Wildcard loop, *RMS-11 Macro*, 3-9
- Window, *RMS-11 User's Guide*, 8-11
 - address
 - See also Address window
 - declaring number of, *Task Builder*, 12-45
 - block
 - composite arrangement, *Writing I/O Driver*, 2-15
 - descriptor, *Task Builder*, 3-22, B-24
 - I- and D-space task, *Task Builder*, 7-5
 - task
 - See Task window
 - turning, *RMS-11 User's Guide*, 8-11
 - optimizations, *RMS-11 User's Guide*, 8-12
- Window block, *Task Builder*, 2-20
 - defining, *Task Builder*, 2-22
 - multiuser task, *Task Builder*, 9-2
 - overlay, *Task Builder*, 3-54
- Window Definition Block
 - See WDB
- Window file
 - mapping pointers, *System Management*, 1-9
- Window pointer number, *I/O Operations*, 2-15, 2-16
- /WINDOW qualifier, *System Management*, 1-9
- MOUNT command, *System Management*, 1-9
- Windows, *RMS-11 User's Guide*, 8-11
 - turning, *RMS-11 User's Guide*, 8-11
 - areas, *RMS-11 User's Guide*, 8-13
 - contiguity, *RMS-11 User's Guide*, 8-12
 - F11ACP size, *RMS-11 User's Guide*, 8-13
 - size, *RMS-11 User's Guide*, 8-12
- Window size parameter
 - F11ACP, *I/O Operations*, H-10
- /WINDOWS qualifier
 - BRU utility, *Utilities*, 3-25
- /WIN keyword
 - HOME command, *MCR*, 3-82
 - /WIN keyword (cont'd.)
 - INITVOLUME command, *MCR*, 3-92
 - MOU command, *System Management*, 1-9
 - MOUNT command, *MCR*, 3-117
 - /Wl switch, *Task Builder*, 10-54
 - /WLT switch
 - FMT utility, *Utilities*, 9-5
 - WNDWS option, *Task Builder*, 12-45
 - .WORD directive, *MACRO-11*, 5-18
 - compared with .FLT2, .FLT4, *MACRO-11*, 5-30
 - implicit, *MACRO-11*, 1-1, 1-4
 - implicit if blank operator field, *MACRO-11*, 5-18
 - operation described, *MACRO-11*, 2-11
 - summary, *MACRO-11*, 5-3
 - WORD function
 - EDT editor, *Introduction*, 2-7
 - Word location
 - displaying, *Debugging*, 4-2, 4-4
 - opening, *Debugging*, 4-2, 4-4
 - underscore command (_), *Debugging*, 4-5
 - Word mode
 - changing to byte mode, *Debugging*, 4-3
 - operator
 - ASCII, *Debugging*, 2-6; *XDT*, 2-12
 - octal, *Debugging*, 2-6, 4-2; *XDT*, 2-12
 - Radix-50, *Debugging*, 2-6; *XDT*, 2-12
 - WORD numeric data type
 - CFL, *Error Logging*, 5-5
 - Words transferred count, *System Management*, 10-7
 - WORD value
 - equivalent string, *Error Logging*, 5-4
 - Work file, *Task Builder*, F-2 to F-5
 - Wraparound
 - automatic
 - remote line (TTDRV), *I/O Drivers*, 2-84
- /WRAP keyword
 - SET command, *MCR*, 3-190
 - SET command (VMR), *System Management*, 5-70
- W register, *Debugging*, 2-5, 5-3
- Write \$\$FSR2 macro
 - default directory string, *I/O Operations*, 4-3
- WRITE\$ macro, *I/O Operations*, 1-8, 3-2
 - block access, *I/O Operations*, 2-11
 - example, *I/O Operations*, 3-35
 - extending file, *I/O Operations*, 3-35

- WRITE\$ macro (cont'd.)
 - FD.RWM parameter
 - block I/O, *I/O Operations*, 2-10
 - FDB, *I/O Operations*, 3-36
 - file processing, *I/O Operations*, 3-33
 - writing virtual block, *I/O Operations*, 3-33
 - format, *I/O Operations*, 3-33
 - virtual block number, *I/O Operations*, 3-34
- WRITE_GROUP statement, *Error Logging*, 4-33
 - CFL, *Error Logging*, 5-26, 5-31, 5-41
- Writeable-block context, *RMS-11 Macro*, 4-12
- Write access, MCR, 2-3
 - common region, MCR, 3-98; *System Management*, 5-24
- F11ACP, *I/O Operations*, H-12
- file
 - initializing volumes with, MCR, 3-88
 - specifying default, MCR, 3-80
 - specifying default for mounted volume, MCR, 3-113
 - specifying personal default, MCR, 3-164
- file open, *I/O Operations*, 2-14
- shared, *I/O Operations*, 1-13
- UFD
 - establishing, MCR, 3-209
- volume
 - initializing volumes with, MCR, 3-91
 - specifying default, MCR, 3-82
 - specifying default for mounted volume, MCR, 3-115
- Write-back cache
 - RCT handling of corruption, *System Management*, 13-5
- Write-back cache data
 - preventing loss, *System Management*, 13-6
- Write-behind file processing, *I/O Operations*, 2-19
- Write-behind operation
 - FD.WBH parameter, *I/O Operations*, 3-11
- Write-check
 - enabling in IOX, *System Management*, 12-62
- WRITECHECK command
 - IOX, *System Management*, 12-62
 - SELECT command line, *System Management*, 12-62
 - using with RETRIES command, *System Management*, 12-62
- Write-checking
 - enabling for Shadow Recording, *System Management*, 16-10
- WRITE command
 - EDT editor, *Introduction*, 2-19
- Write command
 - EDI editor, *Utilities*, 7-43
- Write default UIC function, *I/O Operations*, 4-4
- Write file protection word function
 - default, *I/O Operations*, 4-6
- Write function
 - all character
 - TTDRV, *I/O Drivers*, 2-18, 2-26, 2-31, 2-52
 - breakthrough write
 - TF.WBT (TTDRV), *I/O Drivers*, 2-27, 2-31
 - TTDRV, *I/O Drivers*, 2-18, 2-20, 2-27, 2-50, 2-51
 - nonprivileged, *I/O Drivers*, 2-18
 - privileged, *I/O Drivers*, 2-18
 - DDDRV, *I/O Drivers*, 5-4
 - error (tape driver), *I/O Drivers*, 6-14
 - file owner word, *I/O Operations*, 4-7
 - logical block, *I/O Drivers*, 1-32, 1-33
 - TTDRV, *I/O Drivers*, 2-18, 2-48
 - NRZI (tape driver), *I/O Drivers*, 6-15
 - pass all (TTDRV), *I/O Drivers*, 2-31, 2-48
 - redisplay input (TTDRV), *I/O Drivers*, 2-18, 2-32
- Write image
 - clock control register (LADRV), *I/O Drivers*, 12-25
- /WRITE keyword
 - MOUNT command, MCR, 3-117, 3-124
- Write logical record function
 - file processing, *I/O Operations*, 3-24
 - random mode, *I/O Operations*, 3-28
 - sequential mode, *I/O Operations*, 3-29
- \$WRITE macro
 - sequential access, *RMS-11 Macro*, 5-129
 - VBN access, *RMS-11 Macro*, 5-129
- WRITE operation, *RMS-11 Macro*, 4-14; *RMS-11 Intro*, 4-7
 - access modes, *RMS-11 Intro*, 4-7
 - and shared access, *RMS-11 User's Guide*, 2-6
- \$WRITE macro
 - sequential access, *RMS-11 Macro*, 5-129

WRITE operation (cont'd.)

\$WRITE macro

VBN access, *RMS-11 Macro*, 5-129

WRITE statement, *Error Logging*, 4-33

CFL, *Error Logging*, 5-30, 5-41

Write virtual block file processing, *I/O Operations*, 3-33

\$WRMPG (Write-marked page), *System Library*, 8-40

\$WRPAG (Write page), *System Library*, 8-20

WSIG\$S directive, *Executive*, 5-307

WTLO\$ directive, *Executive*, 5-309

WTSE\$ directive, *Executive*, 5-311; *I/O Drivers*, 1-4, 1-10

WTSE\$ macro, *I/O Drivers*, 1-15, 1-16, 1-24
example, *I/O Drivers*, 1-24

X

X\$-family macro, *RMS-11 Macro*, 2-10

chaining to FAB, *RMS-11 Macro*, 2-11

declaring

ALL block, *RMS-11 Macro*, C-3

DAT block, *RMS-11 Macro*, C-3

KEY block, *RMS-11 Macro*, C-3

PRO block, *RMS-11 Macro*, C-3

SUM block, *RMS-11 Macro*, C-3

XAB

See ALL block

See DAT block

See KEY block

See PRO block

See SUM block

XAB\$B macro, *RMS-11 Macro*, 2-8 to 2-9, C-3

XAB\$BT macro, *RMS-11 Macro*, C-4

declaring, *RMS-11 Macro*, C-3

XAB\$E macro, *RMS-11 Macro*, 2-10

XABOF\$ macro, *RMS-11 Macro*, C-4

XB\$-family symbol

declaring

ALL block, *RMS-11 Macro*, C-3 to C-4

DAT block, *RMS-11 Macro*, C-3 to C-4

KEY block, *RMS-11 Macro*, C-3 to C-4

PRO block, *RMS-11 Macro*, C-3 to C-4

SUM block, *RMS-11 Macro*, C-3 to C-4

XAB, *RMS-11 Macro*, C-4

XBAOF\$ macro, *RMS-11 Macro*, C-4

XBDOF\$ macro, *RMS-11 Macro*, C-4

XBKOF\$ macro, *RMS-11 Macro*, C-4

XBPOF\$ macro, *RMS-11 Macro*, C-4

XSOF\$ macro, *RMS-11 Macro*, C-4

X command, *Debugging*, 1-5, 2-10; XDT,
2-1, 2-14

ODT, *Program Development*, 5-8

ZAP utility, *Utilities*, 15-16

XDT, *Crash Dump Analyzer*, 1-4, 1-5, 1-6;

MCR, 3-31; *System Management*, 1-16;

Writing I/O Driver, 6-2, 6-3, 6-5

commands, *Writing I/O Driver*, 6-2

debugging

driver, *Writing I/O Driver*, 6-2, 6-4,
6-5

general operation, *Writing I/O Driver*, 6-4

invoking, MCR, 3-32

loading, *System Management*, 1-17

restrictions, *Writing I/O Driver*, 6-3, 6-4

startup, *Writing I/O Driver*, 6-3

SYSGEN question, *System Generation*, 3-31

XEDRV

address pairs

Ethernet, *I/O Drivers*, 10-2

asynchronous I/O, *I/O Drivers*, 10-24

auxiliary buffer

transmitting, *I/O Drivers*, 10-12

buffer

diagnostic, *I/O Drivers*, 10-22

protocol/address pair, *I/O Drivers*,
10-9

reading

destination address, *I/O Drivers*,
10-18

Ethernet address, *I/O Drivers*,
10-16

protocol type, *I/O Drivers*, 10-17

set characteristics, *I/O Drivers*, 10-8

setting

destination address, *I/O Drivers*,
10-12

multicast address, *I/O Drivers*,
10-10

protocol type, *I/O Drivers*, 10-14

change mode, *I/O Drivers*, 10-24

closing line, *I/O Drivers*, 10-19

connecting to task, *I/O Drivers*, 10-25

default mode bit, *I/O Drivers*, 10-25

definition, *I/O Drivers*, 10-1

macro

DLXDF\$, *I/O Drivers*, 10-3

EPMD\$, *I/O Drivers*, 10-3

diagnostic

buffer, *I/O Drivers*, 10-22

no data transfer, *I/O Drivers*, 10-24

DLX incompatibility, *I/O Drivers*, 10-24

XEDRV (cont'd.)

- driver installation, *I/O Drivers*, 10-4
- error return
 - IO.XIN function, *I/O Drivers*, 10-20
 - IO.XRC function, *I/O Drivers*, 10-18
 - IO.XTM function, *I/O Drivers*, 10-15
- Ethernet
 - address pairs, *I/O Drivers*, 10-2
 - device consideration, *I/O Drivers*, 10-2
 - LF\$DEF protocol, *I/O Drivers*, 10-3
 - LF\$EXC protocol, *I/O Drivers*, 10-3
 - message, *I/O Drivers*, 10-2
 - padding, *I/O Drivers*, 10-3
 - protocol, *I/O Drivers*, 10-2
 - receiving, *I/O Drivers*, 10-3
 - set characteristics, *I/O Drivers*, 10-7
 - transmitting, *I/O Drivers*, 10-3
- function code, *I/O Drivers*, 10-4
- glossary, *I/O Drivers*, 10-26 to 10-27
- IO.XCL function, *I/O Drivers*, 10-4
- IO.XIN function, *I/O Drivers*, 10-4
- IO.XOP function, *I/O Drivers*, 10-4, 10-5
- IO.XRC function, *I/O Drivers*, 10-4, 10-15
- IO.XSC function, *I/O Drivers*, 10-4
- IO.XTL function, *I/O Drivers*, 10-21
 - microcode, *I/O Drivers*, 10-4
- IO.XTM function, *I/O Drivers*, 10-4
- line message
 - transmitting, *I/O Drivers*, 10-11
- load, *I/O Drivers*, 10-4
- macro library
 - DEUNA.MLB, *I/O Drivers*, 10-3
- microcode loader
 - UML..., *I/O Drivers*, 10-4
- multicast address mode, *I/O Drivers*, 10-2
- opening line, *I/O Drivers*, 10-5
- pad enable bit
 - transmitting, *I/O Drivers*, 10-24
- physical address mode, *I/O Drivers*, 10-2
- programming
 - hint, *I/O Drivers*, 10-23
 - sequence, *I/O Drivers*, 10-4
- protocol
 - Ethernet, *I/O Drivers*, 10-2
- QIO\$ macro, *I/O Drivers*, 10-3
 - general, *I/O Drivers*, 10-3
- QIO\$ macro library
 - EXEMC.MLB, *I/O Drivers*, 10-3
- reading
 - destination address
 - buffer, *I/O Drivers*, 10-18
 - Ethernet address

XEDRV

- reading
 - Ethernet address (cont'd.)
 - buffer, *I/O Drivers*, 10-16
 - protocol type
 - buffer, *I/O Drivers*, 10-17
- receiving message, *I/O Drivers*, 10-15
- set characteristics
 - Ethernet, *I/O Drivers*, 10-7
- setting
 - characteristics
 - buffer, *I/O Drivers*, 10-8
 - destination address
 - buffer, *I/O Drivers*, 10-12
 - multicast address
 - buffer, *I/O Drivers*, 10-10
 - protocol type
 - buffer, *I/O Drivers*, 10-14
- size
 - maximum, *I/O Drivers*, 10-24
 - minimum, *I/O Drivers*, 10-24
- status return, *I/O Drivers*, 10-5
 - IO.XIN function, *I/O Drivers*, 10-20
 - IO.XRC function, *I/O Drivers*, 10-18
 - IO.XTM function, *I/O Drivers*, 10-15
- task requirement, *I/O Drivers*, 10-2
- transmitting message, *I/O Drivers*, 10-11
- U\$\$NCT parameter, *I/O Drivers*, 10-2
- U\$\$NPC parameter, *I/O Drivers*, 10-2
- U\$\$NRS parameter, *I/O Drivers*, 10-2
- U\$\$NTS parameter, *I/O Drivers*, 10-2
- use, *I/O Drivers*, 10-1
- /XHR keyword
 - INS command (VMR), *System Management*, 5-26
 - INSTALL command, MCR, 3-100
- /XH switch, *Task Builder*, 10-55
- XOFF bit
 - TTDRV, *I/O Drivers*, 2-71
- XOFF send
 - TTDRV, *I/O Drivers*, 2-19, 2-32, 2-39, 2-44
- XON/XOFF protocol, *Utilities*, C-2
- XON bit
 - TTDRV, *I/O Drivers*, 2-71
- ^X operator
 - for temporary hexadecimal radix, *MACRO-11*, 5-26
 - restriction, *MACRO-11*, 5-27
- .XQIO routine
 - executing QIO, *I/O Operations*, 4-23
- .XQT directive, *Indirect*, 2-102

XRATE: subroutine
 computing clock rate and preset
 K-series, *I/O Drivers*, 13-27
 LADRV, *I/O Drivers*, 12-22
 X register, *Debugging*, 2-6, 5-3, 5-6
 /XT switch, *Task Builder*, 10-56
 x variable, *Debugging*, 2-1; XDT, 2-10
 xxCTB label, *Writing I/O Driver*, 4-3
 \$xxDCB
 global label, *Writing I/O Driver*, 4-3
 xxDRV.MAC file, *Writing I/O Driver*, 5-2
 xxDRVASM.CMD file, *Writing I/O Driver*,
 5-4
 \$xxLOA label, *Writing I/O Driver*, 4-9, 4-57
 xxTAB.MAC file, *Writing I/O Driver*, 1-23,
 5-2
 \$xxTBE label, *Writing I/O Driver*, 4-55
 \$xxTBL label, *Writing I/O Driver*, 4-18
 \$xxUNL label, *Writing I/O Driver*, 4-9, 4-57

Y

/YESTERDAY qualifier
 ANALYZE/ERROR_LOG command, *Error Logging*, 3-9
 See also /DATE switch
 /@Y switch
 FMT utility, *Utilities*, 9-4

Z

ZAP utility
 address boundary
 displaying, *Utilities*, 15-4
 addressing locations, *Utilities*, 15-7
 addressing mode, *Utilities*, 15-6
 arithmetic operators
 asterisk (*), *Utilities*, 15-9
 minus sign (-), *Utilities*, 15-9
 plus sign (+), *Utilities*, 15-9
 command
 carriage return, *Utilities*, 15-7
 general-purpose, *Utilities*, 15-7, 15-16
 open/close location, *Utilities*, 15-7,
 15-12
 command line, *Utilities*, 15-7, A-34
 debugging privileged task, XDT, 1-11
 displaying overlay segment boundaries,
 Utilities, 15-2
 element separators
 colon (:), *Utilities*, 15-10
 comma (,), *Utilities*, 15-10
 semicolon (;), *Utilities*, 15-10

ZAP utility (cont'd.)

error messages, *Utilities*, 15-26
 example, *Utilities*, 15-20
 indirect command file, *Utilities*, 15-4
 initiating (invoking), *Utilities*, 15-2
 inserting breakpoint, XDT, 1-11
 location
 addressing, *Utilities*, 15-5
 closing, *Utilities*, 15-13
 contents
 changing, *Utilities*, 15-13
 displaying, *Utilities*, 15-13
 verifying, *Utilities*, 15-19
 opening, *Utilities*, 15-13
 specifying, *Utilities*, 15-10
 modifying system image, XDT, 1-11
 ODT online debugger, *Utilities*, 15-1
 open and close commands
 apostrophe ('), *Utilities*, 15-12
 at sign (@), *Utilities*, 15-12
 backslash (\), *Utilities*, 15-12
 circumflex (^), *Utilities*, 15-12
 left angle bracket (<), *Utilities*, 15-12
 percent sign (%), *Utilities*, 15-12
 quotation mark ("), *Utilities*, 15-12
 RETURN key, *Utilities*, 15-12
 right angle bracket (>), *Utilities*,
 15-12
 slash (/), *Utilities*, 15-12
 underscore (_), *Utilities*, 15-12
 operating mode, *Utilities*, 15-5
 register
 constant, *Utilities*, 15-8
 format, *Utilities*, 15-8
 quantity, *Utilities*, 15-8
 relocation, *Utilities*, 15-8
 setting value, *Utilities*, 15-19
 relocation biases, *Utilities*, 15-5
 switches
 /AB, *Utilities*, 15-2, 15-5
 /LI, *Utilities*, 15-2
 /RO, *Utilities*, 15-2, 15-5
 task image file, *Utilities*, 15-3
 instruction and data space, *Utilities*,
 15-4
 multiuser, *Utilities*, 15-3
 resident library, *Utilities*, 15-4
 terminating, *Utilities*, 15-2
 Z command, *Debugging*, 2-10
 Zero CPU intervals
 transaction file, *System Management*, 10-16

/ZERO qualifier

START/ERROR_LOG command, *Error Logging*, 2-7

Zero ticks

transaction file (Resource Accounting),
System Management, 10-16

Z error

flags inconsistent instructions, *MACRO-11*,
4-1

table of applicable instructions, *MACRO-11*,
4-2

/ZE switch

FLX utility, *Utilities*, 8-9

ZZ pseudo device

logical assignments, *System Management*,
19-3

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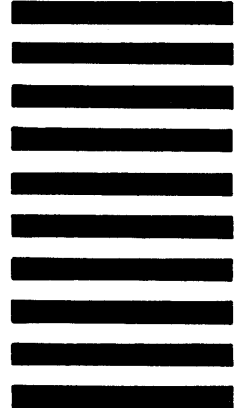
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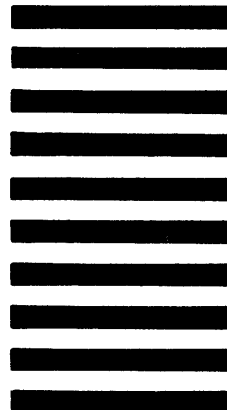
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