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Directory and Master Index**
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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.

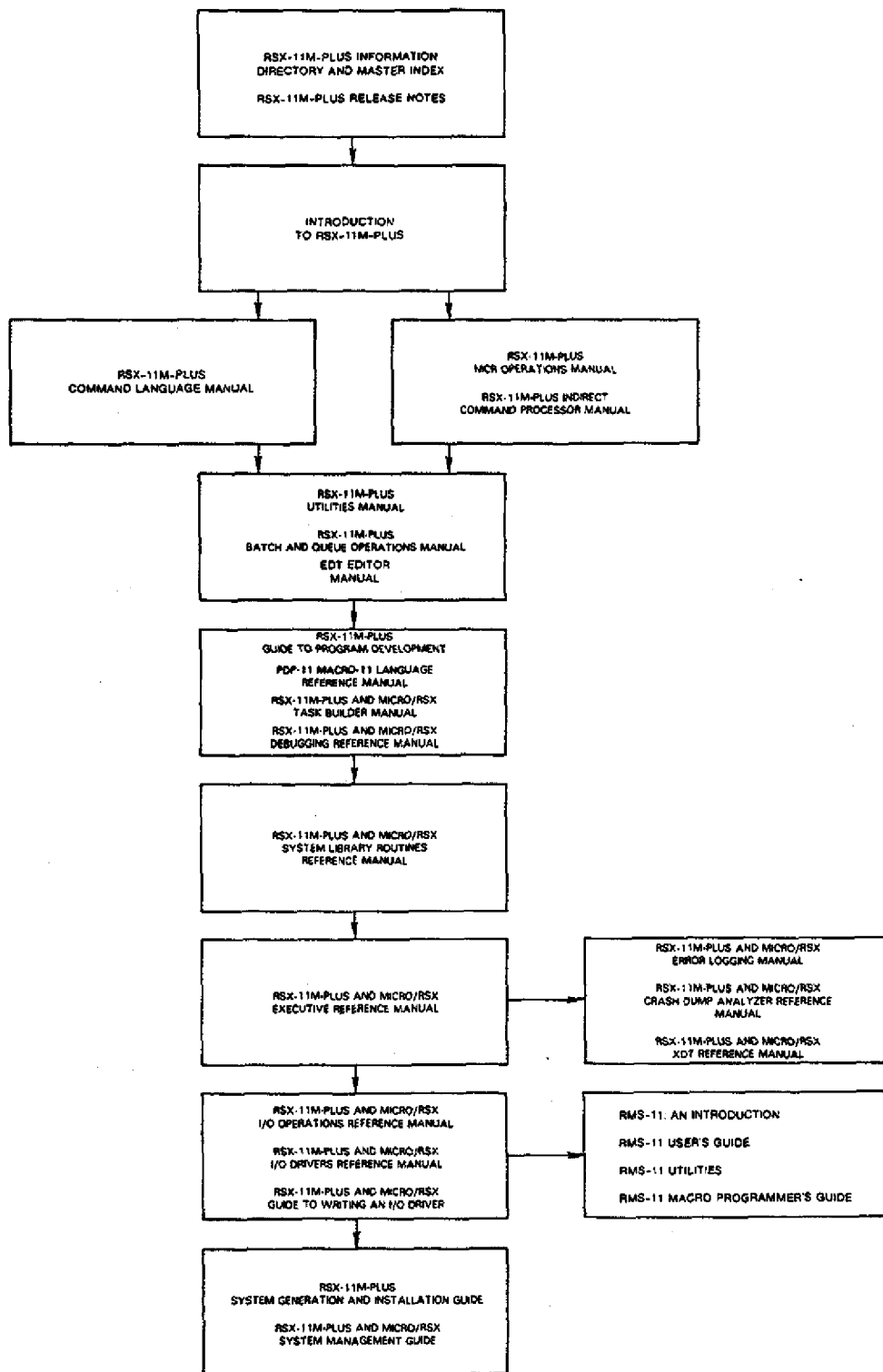
1.2 How the Manuals Are Organized

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/R SX 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/R SX 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/RSX 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/RSX 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/RSX 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>

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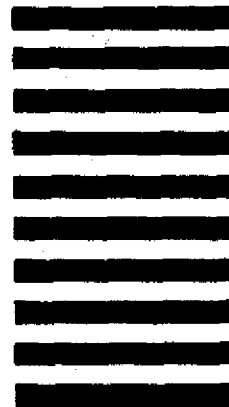
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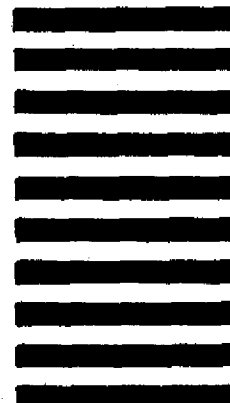
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