Software
Product
Description

DESCRIPTION

RSX-11M-PLUS DIBOL is a high-level procedural language designed specifically for interactive business data processing. It runs under the RSX-11M-PLUS Operating System, taking advantage of the system facilities.

RSX-11M-PLUS DIBOL is based on the DIBOL Standards Organization's DIBOL-83 definition of the language. RSX-11M-PLUS DIBOL is highly compatible with DIBOL-83 implementations on other operating systems, including VMS, RSTS/E, CTS-300, and Micro/RSX. It also provides RSX-11M-PLUS specific extensions and an expansion path for applications requiring the power of RSX-11M-PLUS while retaining the capabilities and advantages of DIBOL-83.

DIBOL provides efficient terminal handling and efficient access to the RSX-11M-PLUS Record Management Services (RMS); RMS provides sequential record access, relative record access, and multi-key indexed sequential record access.

DIBOL-83 supports a set of language statements commonly referred to as structured constructs. These new statements are designed to complement and facilitate desirable programming practices.

The DIBOL compiler reads a source program and produces an object module. The compiler is capable of producing a source listing with embedded diagnostics. The RSX-11M-PLUS DIBOL product includes a compiler, a run-time library, external subroutine libraries, the DIBOL Debugging Technique, and the ability to communicate between programs.

DIBOL-83 Language Description

A DIBOL program is separated into two parts: a Data Division and a Procedure Division. The Data Division defines the data that is used by the program. The Procedure Division contains the executable statements.

The first element in most DIBOL statements is an English language verb that characterizes the action to be performed. The other elements of the statement are data names, references to statement labels, and/or expressions. DIBOL statements fall into the following categories:

Compiler Directives - Provide information about the program to the compiler.

Compiler Declarations - Provide information about the program structure to the compiler.

Data Specification Statements - Define the data used in the program.

Data Manipulation Statements - Perform conversion and value assignments.

Control Statements - Modify the order of statement execution.

Intertask Communications Statements - Allow communication between programs.

Input/Output Statements - Move data between memory and I/O devices.

Universal External Subroutine Library

This library contains external subroutines which are available and perform the same functions on all DIBOL-83 implementations.

Operating System Specific Library

This library contains external subroutines which are available and perform similar functions on one or more of the DIBOL-83 implementations.

SOURCE CODE INFORMATION

To provide patches to the DIBOL utilities that are part of RSX-11M-PLUS DIBOL, some DIBOL source code is provided on the distribution media.

This source code is provided on an "**AS IS**" basis without any warranty of any kind, either express or implied.

HARDWARE REQUIREMENTS

Any valid RSX-11M-PLUS Operating System system configuration.

Block space requirements:

Net block count:	1,900 blocks
	(973K bytes)
Peak block count:	2,000 blocks
	(1,204K bytes)

These block counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration and software options selected.

OPTIONAL HARDWARE

None

PREREQUISITE SOFTWARE

RSX-11M-PLUS Operating System

Refer to the RSX-11M-PLUS Optional Software Cross Reference Table (SPD 20.99.xx) for the required version.

OPTIONAL SOFTWARE

None

LICENSE OPTIONS

This software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital's licensing terms and policies, contact your local Digital office.

SOFTWARE PRODUCT SERVICES

A variety of service options are available. For more information on these or other services, please contact your local Digital office.

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

SOFTWARE OPTIONS CHART

The distribution Media Codes used in the Software Options Chart are described below. You specify the desired media code at the end of the Order Number, e.g., QP540-HD = binaries on 9-track 800 BPI Magtape (NRZI).

5 = TK50 Tape Cartridge
D = 9-track 800 BPI Magtape (NRZI)
H = RL02 Disk Cartridge
M = 9-track 1600 BPI Magtape (PE)
V = RK07 Disk Cartridge
Z = No hardware dependency

Note: The availability of these software product options and services may vary by country. Customers should contact their local Digital office for information on availability.

OPTIONS	ORDER NUMBER CLASS L [1] SYSTEMS	ORDER NUMBER CLASS H [2] SYSTEMS
LICENSE OPTIONS: A LICENSE IS REQUIRED FOR EACH CPU.		
Single-Use License	QY540-UZ	QP540-UZ
MATERIALS AND SERVICE OPTIONS:		
Distribution and Documentation Option	QY540-H5 QY540-HH QY540-HM	QP540-HD QP540-HH QP540-HM QP540-HV
Software Revision Right-To-Copy Option	QY540-HZ	QP540-HZ
Documentation-Only Option	QY540-GZ	QP540-GZ
Installation Service Option	QY540-I5 QY540-IH QY540-IM	QP540-ID QP540-IH QP540-IM QP540-IV
DECsupport Service	QY540-95 QY540-9H QY540-9M	QP540-9D QP540-9H QP540-9M QP540-9V
Basic Service	QY540-85 QY540-8H QY540-8M	QP540-8D QP540-8H QP540-8M QP540-8V
Self-Maintenance Service	QY540-35 QY540-3H QY540-3M	QP540-3D QP540-3H QP540-3M QP540-3V

[1] Class L Single-Use License (for low-end systems)

- All Q-bus models and systems including MicroPDP-11/83

- KD11, KDF11, KDJ11 CPU modules

- DCT11, DCF11, DCJ11 microprocessor chips

[2] Class H Single-Use License (for high-end systems)

- All UNIBUS models and systems

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