Software Product Description

PRODUCT NAME: **MicroVAX Diagnostic Monitor (MDM)**   **SPD 28.16.01**
                            Development Kit, Version 1.0

DESCRIPTION

The MicroVAX Diagnostic Monitor Development Kit is a layered product for the development of diagnostics for such Digital low-end systems as MicroVAX, Mayfair, Mipsfair, Pele, and Omega. Diagnostics developed under this kit are compatible with the standard diagnostics provided by Digital for the supported MicroVAX System(s) and supported peripherals.

The MDM development kit contains documentation and software for developing, building, testing, and distributing MDM diagnostics. The documentation describes the MicroVAX diagnostic strategy, the Command Line Processor, and the MDM Diagnostic Support Library (DSL).

The software includes control modules for the MDM system and the Diagnostic Support Library used by diagnostics to interface with the system and devices under test. Diagnostics for nonstandard devices can be developed and integrated with other diagnostics.

Although the specifics for third-party or nonstandard diagnostics are to be handled on an individual basis, the following general guidelines will apply. Individuals involved with third-party diagnostics need to determine that the chosen method(s) of diagnostic distribution are in accordance with the Digital legal and licensing policies. Any issues involving initial distribution and/or update distribution should be resolved prior to release of the diagnostic.

Diagnostics can be developed using EPASCAL or C, using VMS support tools and linked with MDM modules for testing. Debugging of diagnostics is supported by the VAXELN debugger. Use of higher level languages and VMS-supported tools reduces diagnostic development time significantly.

Features

- Control by menus and simple commands

- Separate modes for operation by experts and novices

- Identification of Field Replaceable Units (FRUs) on failure

- Provision for exerciser tests to do system-level testing

- Simple interface to system by ordinary routine calls

- Automatic configuration and loading of diagnostic programs

- Message text separate from code for multi-language support

HARDWARE REQUIREMENTS

Any valid VAX system configuration running the VMS Operating System, or any valid MicroVAX II or VAXstation II system configuration running the full MicroVMS Operating System is required for the MDM development kit. An RQDX/RD53 disk configuration is recommended for MicroVAX or VAXstation configurations.

The diagnostics developed using the kit require a target MicroVAX or a VAXstation II for checkout and execution. The target system must have a bootable device (RQDX, TK50, RRD, or DEQNA/DELQA/DESQA) in order to load the diagnostics.

SOFTWARE REQUIREMENTS

For VAX Systems:

- VAX/VMS Operating System V4.0, at a minimum

- VAXELN Tool Kit V4.3

For MicroVAX II Systems:

- MicroVMS Operating System V4.7

- VAXELN Tool Kit V4.3

For VAXstation II Systems:

- MicroVMS Operating System V4.7

- VAXELN Tool Kit V4.3

OPTIONAL SOFTWARE

• DECnet–VAX V5.5

• VAX C V3.2

GROWTH REQUIREMENTS

The minimum hardware/software requirements for any future version of this product may be different from the minimum requirements for the current version.

DISTRIBUTION MEDIA

TK50 Streaming Tape

ORDERING INFORMATION

Prerequisite Licenses:

• MicroVAX II Diagnostic Single Use License: QX-K19AA-AA, or

• MicroVAX 3XXX Diagnostic Single-Use License: QX-K19AB-AA

Order Numbers for MDM Diagnostic Development Kit:

• MicroVAX Diagnostic Development Single-Use License: QX-K15AA-AA

• MicroVAX Diagnostic Development Media Kit TK50: QZ-K15AA-H5

• MicroVAX Diagnostic Development Media Kit 1600 Magtape: QZ-K15AA-HM

• MicroVAX Diagnostic Development Update Service TK50: QY-K15AA-A5

• MicroVAX Diagnostic Development Update Service Magtape: QY-K15AA-AM

INSTALLATION

MicroVAX Diagnostic Monitor (MDM) Development Kit is a software product engineered to be installed by the customer. Optional Digital installation is available on a time and material basis.

SOFTWARE LICENSING

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SOFTWARE PRODUCT SERVICES

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SOFTWARE WARRANTY

None.

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