

Software Product Description

PRODUCT NAME: VAX 8200/8300 Diagnostic Set

SPD 27.81.01

DESCRIPTION

The VAX 8200/8300 Diagnostic Set is a package of programs that allows users to maintain a VAX 8200/8300 central processor unit (CPU), memory, and standard VAX 8200/8300 peripheral devices. The set consists of macrodiagnostic programs which are required to fully support diagnosis of a VAX 8200/8300 system.

The heart of the VAX 8200/8300 system is the VAXBI internal bus. CPU, memory, and some peripheral adapters and controllers are connected to this bus, and are referred to as VAXBI nodes. All VAXBI nodes have extensive Self-tests built into them, and these are automatically executed when the system is initialized. This minimizes the number of macrodiagnostics required for maintenance of VAX 8200/8300 systems.

The UNIBUS is supported on VAX 8200/8300 systems, and many existing UNIBUS peripheral devices can be used. This requires macrodiagnostics to be used for maintenance of these devices.

In summary, macrodiagnostics are used for fault detection and isolation within some VAXBI nodes and all UNIBUS peripherals. This complements the extensive self-test capabilities of VAX 8200/8300 systems.

Macrodiagnostic Components

VAX Diagnostic Supervisor (VAX/DS) -

Supplies diagnostic and operator services (i.e., loading, starting, and control) as a stand-alone controller (non-VMS) or as a process under VMS.

Diagnostics -

Consist of exercisers, functional-level and logic-level tests that run under control of VAX/DS. Functional-level tests run with VMS. Logic level programs run only in stand-alone mode.

Supporting programs also included are configurator utility, disk formatters, boots, and autosizers.

Table 1
8200/8300 Diagnostic Program Levels

Level	Runtime Environment	Types of Programs
Level 2R	Runs under VAX/DS in user mode only	Exercisers and functional tests of memory, peripheral devices
Level 2	Runs under VAX/DS in user and standalone modes	Functional tests of CPU instruction set
Level 3	Runs under VAX/DS in standalone mode only	Functional tests and logic tests of CPU and peripheral devices
Level 4	Runs in standalone mode without VAX/DS	Functional and logic tests of CPU

HARDWARE REQUIREMENTS

Any valid VAX 8200/8300 system configuration

OPTIONAL HARDWARE

None

SOFTWARE REQUIREMENTS

VMS Operating System is only required for L2R Diagnostic Operation.

OPTIONAL SOFTWARE

None

WARRANTY

None

This software product is provided "**AS IS**" without any warranty of any kind, either express or implied.

SOFTWARE LICENSING

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The Single-Use, end-user license is required for each processor to be self-maintained.

The VAX 8200 and 8300 Diagnostic Media Kits each consist of a 9-track 1600 BPI Magtape containing all the diagnostic software, plus a set of RX50 diskettes containing only the diagnostics for system load devices and the Diagnostic Supervisor and Standalone Auto-sizer.

ORDERING INFORMATION

VAX 8200

- QX-K10AA-AA Single-use, end-user license only, no binaries, no documentation, no support services.
- QZ-K10AA-HW Diagnostic Media/Documentation kit, binaries (on 9-track 1600 BPI Magtape) and a dozen RX50 diskettes.
- QY-K10AA-AW Annual Diagnostic Update Service

VAX 8300

- QX-K10AB-AA Single-use, end-user license only, no binaries, no documentation, no support services.
- QZ-K10AA-HW Diagnostic Media/Documentation kit, binaries (on 9-track 1600 BPI Magtape) and a dozen RX50 diskettes.
- QY-K10AA-AW Annual Diagnostic Update Service

Update Options

Licensed users of VAX Diagnostics may order the Annual Subscription Update Service at the prevailing rate for such updates. The update is distributed in binary form on the appropriate medium and includes no installation or other services unless specifically stated.

Miscellaneous Options

Maintenance Documentation Service (MDS) - Microfiche documentation library

- MD-VAX-01 Maintenance Documentation and Diagnostic Listings for VAX systems (Library plus updates)
- MD-VAX-D1 Maintenance Documentation for VAX systems (Library plus updates)
- MD-VAX-L1 Diagnostic Listings for VAX systems (Library plus updates)
- DEC-O-LOG Microfiche
- MD-MFDOL-R Field Change Order notification service for all systems (initial subscription includes one year of updates)

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