Software Product Description

PRODUCT NAME: VAX KCT32, Version 2.1   **SPD 26.04.04**

DESCRIPTION

VAX KCT32 is a software and firmware package that provides users with VMS support for the KCT32 hardware communication option. VAX KCT32 software, in conjunction with the KCT32 firmware and KCT32 hardware, allows users to implement custom communication applications.

Users can program the KCT32 communication lines for bit/byte synchronous or asynchronous transmission and reception using the standard Digital PDP–11 Instruction Set, as implemented with the DCT11 chip. This software used with the KCT32 hardware and user-written communication application allows the VMS host processor to perform high speed (two lines at 64K baud in bit synchronous mode, or one line at 130K baud in bit synchronous mode) multi-line communication functions.

Software Features

* VMS General Purpose driver which allows the VMS host application to pass command, control, and message data to/from the:

    — VMS user

    — KCT32 user-written communication application

    — Remote end of the communication lines

* Down-line loading of the KCT32 user-developed communication application

* KCT32 status and statistics

* Full-duplex Driver operation

* UETP (User Environment Test Program)

* IVP (Installation Verification Program) for the KCT32 VMS driver

* Integrated support of the UETP, IVP, and level 2R diagnostic in the VMS driver

The driver is full-duplex, maintains internal queues and will support up to four KCT32s concurrently.

Firmware Features

The KCT32 firmware consists of system support modules where users can build and debug custom communication applications.

The support modules consist of:

* KCT32 executive for control of modules and application interfaces.

* Modem control interface.

* Baud rate generator interface.

* CSR interface.

* Timer functions.

* KCT32 front-end I/O processor interface.   (The KCT32 has a second onboard microprocessor for dedicated control of the communication lines.)

* KCT32 ODT type, Debugger Interface for debugging user applications.

* DMA interfaces for high throughput to/from the KCT32 VAX host and to/from the KCT32 and its onboard I/O processor.

* Onboard selectable interface for RS422, RS449, RS423, or RS232.

HARDWARE REQUIREMENTS

VAX configuration as specified in the System Support Addendum (SSA 26.04.04-x).

SOFTWARE REQUIREMENTS

VMS Operating System

Refer to the System Support Addendum (SSA 26.04.04-x) for availability and required versions of prerequisite /optional software.

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ORDERING INFORMATION

Software Licenses: QL-128A*-**
Software Media: QA-128A*-**
Software Documentation: QA-128AA-GZ

*   Denotes variant fields. For additional information on available licenses and media, refer to the appropriate price book.

SOFTWARE LICENSING

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 polices, contact your local Digital office.

LICENSE MANAGEMENT FACILITY

This layered product supports the VMS License Management Facility.

License units for this product are allocated on a CPU-capacity basis.

For more information on the License Management Facility, refer to the VMS Operating System Software Product Description (SPD 25.01.xx) or the *License Management Facility* manual of the VMS Operating System documentation set.

For more information on Digital's licensing terms and policies, 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 the SPD.

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System
Support
Addendum

PRODUCT NAME: VAX KCT32, Version 2.1   **SSA 26.04.04-B**

HARDWARE REQUIREMENTS

Processors Supported

VAX: VAX 8600, VAX 8650,
                  VAX–11/730, VAX–11/750
                  VAX–11/780, VAX–11/785

Processors Not Supported

                  VAXft Model 110,
                  VAXft Model 310,
                  VAXft Model 410,
                  VAXft Model 610,
                  VAXft Model 612

VAX: VAX 4000 Model 200,
                  VAX 4000 Model 300,
                  VAX 4000 Model 500,

                  VAX 6000 Model 200 Series,
                  VAX 6000 Model 300 Series,
                  VAX 6000 Model 400 Series,
                  VAX 6000 Model 500 Series,
                  VAX 6000 Model 600 Series

                  VAX 8200, VAX 8250, VAX 8300, VAX 8350,
                  VAX 8500, VAX 8530, VAX 8550, VAX 8700,
                  VAX 8800, VAX 8810, VAX 8820, VAX 8830,
                  VAX 8840

                  VAX 9000 Model 110,
                  VAX 9000 Model 210,
                  VAX 9000 Model 300 Series,
                  VAX 9000 Model 400 Series

                  VAX–11/725, VAX–11/782

MicroVAX, VAXstation, and VAXserver processors

Processor Restrictions

- For VAX 8600, the KCT32 must be the only device on the UNIBUS

- A maximum of four KCT32s per processor.

Other Hardware Required

- KCT32 - AB

- KCT32 - AE

- KCT32 - FA

- KCT32 - FF

Disk Space Requirements (Block Cluster Size = 1):

Disk space required for installation: 1,236 blocks
                                              (633 Kbytes)

Disk space required for use (permanent):   342 blocks
                                              (175 Kbytes)

These 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.

OPTIONAL HARDWARE

DZ11 for the KDT Executive Debugger

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster* configuration without restrictions. The *HARDWARE REQUIREMENTS* sections of this product's Software Product Description and System Support Addendum detail any special hardware required by this product.

*   V5.x VAXcluster configurations are fully described in the VAXcluster Software Product Description (SPD 29.78.xx) and include CI, Ethernet, and Mixed Interconnect configurations.

SOFTWARE REQUIREMENTS

VMS Operating System V5.0 - V5.5

VMS Tailoring

For VMS V5.x systems, the following VMS classes are required for full functionality of this layered product:

- VMS Required Saveset
- Programming Support
- System Programming Support
- User Environment Test Package

For more information on VMS classes and tailoring, refer to the VMS Operating System Software Product Description (SPD 25.01.xx).

OPTIONAL SOFTWARE

None

GROWTH CONSIDERATIONS

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

DISTRIBUTION MEDIA

9-Track 1600 BPI Magtape, TK50 Streaming Tape

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Software Documentation: QA-128AA-GZ

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The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.

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