Software Product Description

PRODUCT NAME: DEC Distributed Queuing Service for OpenVMS, Version 1.3 **SPD 28.80.03**

DESCRIPTION

The standard OpenVMS queue system enables users to use the OpenVMS PRINT command to print files on output devices that are attached to the user's local OpenVMS node.

The DEC Distributed Queuing Service (DQS) uses the DECnet networking system to extend the standard OpenVMS queue system to enable users to:

- Print jobs on printers connected to systems other than their own
- Show the status of jobs on those systems
- Cancel their jobs on those systems
- Change the specifications of their jobs on those systems

Any node where a print request originates is called a client. Any node with an attached printer that performs the printing is called a server. Any node with DQS software can be configured to operate as only a client or as both a client and a server. The DQS software does not limit the number of client or server nodes or queues. The system manager creates the queues and establishes the correspondence between client queues and queues on server nodes. A queue on a server node can accept jobs from queues on multiple client nodes.

Features

The following is a summary of features available in the DEC Distributed Queuing Service software:

- Provides an easy means of printing from systems that do not have printers.
- The DQS software can be used in any DECnet networking environment. Both Local Area Networks and Wide Area Networks are supported. DQS supports DECnet Phase V fullname functionality.
- The DQS software allows multiple OpenVMS systems to share expensive or unique printers.
- The DQS software does not limit the user's choice of printing equipment as it can work with standard Digital symbionts and most user-written or user-modified symbionts.
- Provides completely transparent support for the following qualifiers of the OpenVMS PRINT command:

/BACKUP	/BEFORE	/BURST
/BY_OWNER	/CONFIRM	/CHARACTERISTICS
/COPIES	/CREATED	/DEVICE
/EXCLUDE	/EXPIRED	/FEED
/FLAG	/IDENTIFY	/JOB_COUNT
/LOWERCASE	/MODIFIED	/NAME
/NOTE	/QUEUE	/REMOTE
/RESTART	/PAGES	/PASSALL
/SETUP	/SINCE	/SPACE
/TRAILER	/USER	

  All other OpenVMS PRINT qualifiers are supported, with slight differences that reflect the distributed environment of DQS.
- If the DQS server is temporarily inaccessible when a print command is issued, the DQS client will attempt to transfer the job for printing after the DQS server again becomes available.
- If a printer becomes unavailable, the corresponding DQS server queue can be configured to direct print jobs to a different DQS server queue.
- The DQS software can send notification to the user after a print job has been completed.
- Additional queues can be added and queue attributes changed without reinstalling the DQS software.
- Additional DQS nodes can be added to an existing network of DQS nodes without reinstalling the software on the existing nodes.
- The DQS software can be configured to limit access to servers.
- The DQS software can be configured to keep records of use.
- The DQS commands can be used on non-DQS queues.

HARDWARE REQUIREMENTS

Alpha AXP: DEC 2000 Model 300S AXP

DEC 3000 Model 300 AXP,
DEC 3000 Model 300L AXP,
DEC 3000 Model 400 AXP,
DEC 3000 Model 400S AXP,
DEC 3000 Model 500 AXP,
DEC 3000 Model 500S AXP,
DEC 3000 Model 500X AXP,
DEC 3000 Model 600 AXP,
DEC 3000 Model 600S AXP,
DEC 3000 Model 800 AXP,
DEC 3000 Model 800S AXP

DEC 4000 Model 600 AXP Series,
DEC 4000 Model 700 AXP Series

DEC 7000 Model 600 AXP Series

DEC 10000 Model 600 AXP Series

VAX Processors Supported:

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

VAX 4000 Model 100,
VAX 4000 Model 200,
VAX 4000 Model 300,
VAX 4000 Model 400,
VAX 4000 Model 500,
VAX 4000 Model 600

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 7000 Model 600 Series

VAX 8200, VAX 8250, VAX 8300,
VAX 8350, VAX 8500, VAX 8530,
VAX 8550, VAX 8600, VAX 8650,
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 10000 Model 600 Series

VAX–11/730, VAX–11/750,
VAX–11/780, VAX–11/785

MicroVAX: MicroVAX II, MicroVAX 2000,
MicroVAX 3100 Model 10/10E,
MicroVAX 3100 Model 20/20E,
MicroVAX 3100 Model 30,
MicroVAX 3100 Model 40,
MicroVAX 3100 Model 80,
MicroVAX 3100 Model 90,
MicroVAX 3300, MicroVAX 3400,
MicroVAX 3500, MicroVAX 3600,
MicroVAX 3800, MicroVAX 3900

VAXstation: VAXstation II, VAXstation 2000,
VAXstation 3100 Model 30,
VAXstation 3100 Model 38,
VAXstation 3100 Model 40,
VAXstation 3100 Model 48,
VAXstation 3100 Model 76,
VAXstation 3200, VAXstation 3500,
VAXstation 3520, VAXstation 3540

VAXstation 4000 Model 60,
VAXstation 4000 Model 90,
VAXstation 4000 VLC

VAXserver: VAXserver 3100, VAXserver 3300,
VAXserver 3400, VAXserver 3500,
VAXserver 3600, VAXserver 3602,
VAXserver 3800, VAXserver 3900

VAXserver 4000 Model 200,
VAXserver 4000 Model 300,
VAXserver 4000 Model 500

VAXserver 6000 Model 210,
VAXserver 6000 Model 220,
VAXserver 6000 Model 310,
VAXserver 6000 Model 320,
VAXserver 6000 Model 410,
VAXserver 6000 Model 420,
VAXserver 6000 Model 510,
VAXserver 6000 Model 520,
VAXserver 6000 Model 610,
VAXserver 6000 Model 620,
VAXserver 6000 Model 630

Processors Not Supported:

MicroVAX I, VAXstation I, VAX–11/725,
VAX–11/782, VAXstation 8000

VAX Processor Restrictions:

A TK50 tape drive is required for standalone MicroVAX 2000 and VAXstation 2000 systems.

A network interface controller supported by DECnet–VAX is required.

AXP Processor Restrictions:

A network interface controller supported by DECnet for OpenVMS AXP is required.

Disk Space Requirements (Block Cluster Size = 1):

For Alpha AXP Systems:

Disk space required for installation:	4500 blocks (2304 Kbytes)
Disk space required for use (permanent):	2300 blocks (1177.6 Kbytes)

For VAX Systems:

Disk space required for installation:	2700 blocks (1382.4 Kbytes)
Disk space required for use (permanent):	1300 blocks (665.5 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.

In addition, disk space is required on a temporary basis to hold working directories and queued files.

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster*, VMScluster* or mixed-architecture VMScluster configuration without restrictions. The *HARDWARE REQUIREMENTS* section of this product's Software Product Description detail any special hardware required by this product.

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

* VMScluster configurations are fully described in the VMScluster Software for OpenVMS AXP Software Product Description (42.18.xx)

SOFTWARE REQUIREMENTS

- OpenVMS VAX Operating System V5.5-2 - V6.1
- DECnet for OpenVMS VAX V5.6 - V5.7
- OpenVMS AXP Operating System V6.1
- DECnet/OSI for OpenVMS AXP V5.7

OpenVMS Tailoring:

The following OpenVMS classes are required for full functionality of this layered product:

- OpenVMS Required Saveset
- Network Support
- Secure User's Environment

For more information on OpenVMS classes and tailoring, refer to the OpenVMS Operating System Software Product Description (SPD 25.01.xx) or the OpenVMS AXP Operating System Software Product Description (SPD 41.87.xx).

OPTIONAL SOFTWARE

Polycenter Software Installation (PCSI) V1.0

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

For VAX Systems:

9-track 1600 BPI Magtape, TK50 Streaming Tape

This product is also available as part of the OpenVMS Consolidated Software Distribution on CD-ROM.

The software documentation for this product is also available as part of the OpenVMS Online Documentation Library on CD-ROM.

For Alpha AXP Systems:

This product is distributed on the Digital CD-ROM Software Library for OpenVMS AXP.

ORDERING INFORMATION

For Alpha AXP Systems:

Software Licenses: QL-0HPA*-**

Software Media/Documentation: QA-03XAA-HA

Software Product Services: QT-0HPA*-**

Documentation for Alpha AXP systems is included on the layered product CD-ROM. Hardcopy documentation can be ordered by using the Software Documentation number for OpenVMS VAX systems, QA-VENA*-GZ.

For VAX Systems:

Software Licenses: QL-VENA*-**

Software Media: QA-VENA*-**

Software Documentation: QA-VENA*-GZ

Software Product Services: QT-VENA*-**

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

SOFTWARE LICENSING

This software is furnished only under a license. For more information about Digital's licensing terms and policies, contact your local Digital office.

License Management Facility Support:

This layered product supports the OpenVMS License Management Facility.

License units for this product are allocated on an Unlimited System Use basis. The OpenVMS VAX product uses a clusterwide license; the OpenVMS AXP product uses a traditional license.

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

For more information on Digital's licensing policies, contact your local Digital office.

SOFTWARE PRODUCT SERVICES

A variety of service options are available from Digital. For more information, 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.

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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