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Software Product Description

PRODUCT NAME: **Disk File Optimizer
                      for OpenVMS, Version 2.3**

SPD 55.85.05

DESCRIPTION

The Disk File Optimizer (formerly named POLYCENTER File Optimizer) for OpenVMS is a layered software product which reduces both file fragmentation and freespace fragmentation and optimizes file placement on disk media. This results in better application performance, better backup performance, and more efficient disk utilization. Disk File Optimizer operates in two modes. In "Defrag PLUS" mode, RMS is used as a database of scheduling information, and defragmentation jobs can be scheduled using a wide variety of scheduling criteria. In normal "Defrag" mode, defragmentation jobs are run when requested by the user. The user or system manager can specify which of these two modes should be used when the product is installed.

The key capabilities of the Disk File Optimizer for OpenVMS are:

- Reduces file fragmentation and freespace fragmentation for disk devices

- Provides the ability to defragment specific files or an entire disk

- Gives the user the capability to select or exclude specific files based on:

  — User choice

  — Severity of fragmentation

  — Whether the file has placement pointers

  — Whether the files are indexed

- Provides event based scheduling of defragmentation jobs

- Provides a Monitor function which allows File Optimizer processes to be monitored while in operation

- Allows pre- and post-processing commands to effect automation of tasks before and after defragmentation jobs are executed

- Gives the user the ability to classify files as "hot" (frequently accessed), or "cold" (infrequently accessed) and to have them placed on the disk drive accordingly

- Provides two modes of operation to tailor to the specific customer environment

- Offers a choice of Digital Command Line (DCL) or Motif®-based Graphical User Interfaces. This is available for both Defrag and Defrag PLUS modes.

- Provides an offline defragmentation utility that allows the user to defragment INDEXF.SYS on a disk device that is not mounted. For a bound volume set this utility only works on the "ROOT" volume.

HARDWARE REQUIREMENTS

Disk File Optimizer is a layered software product on the OpenVMS operating system for both VAX and Alpha hardware platforms. The list of supported processors and hardware configurations is the same as those supported by OpenVMS and mentioned in the following Software Product Descriptions (SPDs).

OpenVMS VAX Operating System SPD (25.01.xx)
OpenVMS Alpha Operating System SPD (41.87.xx)

Processors Not Supported

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

Processor Restrictions:

The MicroVAX 2000 and VAXstation 2000 systems require a TK50 for a load device.

A minimum system configuration to run Disk File Optimizer includes:

- 4 MB memory

- One or more tape drives (TK50 or 9-track) supported by OpenVMS

- One or more disk drives supported by OpenVMS

Disk Space Requirements (Block Cluster Size = 1)

Disk Space Requirements for Defrag PLUS

For installation on VAX:	7,000 blocks (3.6 MB)
For permanent use on VAX:	3,700 blocks (1.9 MB)
For installation on Alpha:	12,000 blocks (6.2 MB)
For permanent use on Alpha:	7,800 blocks (4.0 MB)

Disk Space Requirements for Defrag

For installation on VAX:	3,900 blocks (2.0 MB)
For permanent use on VAX:	2,800 blocks (1.5 MB)
For installation on Alpha:	7,800 blocks (4.0 MB)
For permanent use on Alpha:	3,900 blocks (2.0 MB)

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.

SOFTWARE REQUIREMENTS

- OpenVMS VAX Operating System (Version 5.5-2, 6.0, 6.1, 6.2, 7.0, 7.1) or OpenVMS Alpha (Versions 6.1, 6.2, 7.0, or 7.1)

- DEC C/C++ runtime kit (included with the Disk File Optimizer kit) is only required for OpenVMS Version 5.5-2.

OpenVMS Tailoring

For OpenVMS V5.x systems or OpenVMS Alpha V6.x systems, the following classes are required for full functionality of this layered product:

- OpenVMS Required Saveset
- Programming Support
- Utilities
- System Programming Support
- Secure User's Environment
- Network Support
- OpenVMS Workstation Support

For more information on OpenVMS classes and tailoring, refer to the OpenVMS VAX 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 Performance Data Collector for OpenVMS V2.1 or later.

  The POLYCENTER Performance Data Collector and POLYCENTER Performance Advisor software are required to use the automated hot file placement option. This capability requires a valid license for POLYCENTER Performance Data Collector but does not require purchase of a license for POLYCENTER Performance Advisor. The binaries for both the POLYCENTER Performance Data Collector and POLYCENTER Performance Advisor must be accessible to Disk File Optimizer. These binaries are available on the OpenVMS Software Product Library on CD-ROM (see the ORDERING INFORMATION section for part numbers). In order for Disk File Optimizer to place "hot" files using data supplied by POLYCENTER Performance Data Collector and POLYCENTER Performance Advisor, the Disk File Optimizer must be running on a system that also has the POLYCENTER Performance Advisor and POLYCENTER Data Collector installed on it.

- VMS DECwindows Motif V1.1 or later.

  VMS DECwindows Motif is part of the OpenVMS Operating System but must be installed separately. Installation of VMS DECwindows Motif gives you the option to use the Disk File Optimizer graphical user interface.

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 the software are granted for use on one specified system, based on the processor system class level. Licenses granted as processor tier-independent (processor generic), are no longer offered, but can continue to be used on any system supported by the software. These include the following licenses: QL-2GNA9-AA and QL-GJ8A9-AA.

For more information on the OpenVMS License Management Facility, refer to the OpenVMS VAX Operating System Software Product Description (SPD 25.01.xx), the OpenVMS Alpha Operating System Software Product Description (SPD 41.87.xx), or the License Management Facility manual of the OpenVMS VAX or OpenVMS Alpha Operating System documentation set.

CLUSTER ENVIRONMENT

Disk File Optimizer supports defragmenting disks connected to OpenVMS VAX or Alpha machines from any supported VAX or Alpha machine. It is fully supported when installed on any valid and licensed VMScluster* configuration without restrictions. The *HARDWARE REQUIREMENTS* section of this product's Software Product Description details any special hardware required by this product.

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

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

The Disk File Optimizer software is available on 9-track magtape or TK50 tape.This media contains both VAX and Alpha executables and documentation.

This layered product is also available as part of the OpenVMS Consolidated Software Distribution on CD-ROM for VAX (QA-VWJ8A-A8) and on the Digital CD-ROM Software Library for OpenVMS Alpha (QA-03XAA-H8).

ORDERING INFORMATION

Software Media:

    VAX (TK50): QA-GJ8AA-H5
    VAX (magtape): QA-GJ8AA-HM
    VAX (CD-ROM): QA-VWJ8A-A8
    Alpha (CD-ROM): QA-03XAA-H8

Software Licenses:

    VAX:

        Workgroup: QL-GJ8AB-AA
        Departmental: QL-GJ8A2-AA
        Enterprise: QL-GJ8A5-AA

    Alpha:

        Workgroup: QL-2GNAE-AA
        Departmental: QL-2GNAG-AA
        Enterprise: QL-2GNAQ-AA

Software Documentation:

    VAX: QA-GJ8AA-GZ
    Alpha: QA-2GNAA-GZ

Software Product Services:

    VAX: QT-GJ8A*-**
    Alpha: QT-2GNA*-**

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

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.