Software Product Description

PRODUCT NAME: VAX Disk Striping Driver for VMS, Version 2.0 **SPD 31.66.01**

DESCRIPTION

The VAX Disk Striping Driver implements disk striping for the VMS Operating System. The product provides the ability for users to create one or more stripesets, each comprised of two or more physical disk drives and represented to the user application (and operating system) as a single pseudo-device. Stripesets must be composed of disks of a single type. Full VAXcluster support is provided with Striping V2.0 (with VMS V5.4).

Disk striping interleaves multiple disks to improve I/O performance in the same way that high-performance memory systems interleave memory banks. In each case, data requests are decomposed and distributed to physical storage components that process those requests in parallel.

There are three types of I/O performance problems that disk striping can help relieve. They are:

1. Applications that require very high data transfer rates
2. Systems in which static disk load balancing is ineffective
3. Applications that are prohibited from distributing data across multiple disks but need higher throughput than is available from a single disk

The pseudo-device responds to all of the I/O operations defined for ordinary disk drives including physical, logical, and virtual I/O. As a result, the striping driver is transparent to all VMS software other than diagnostics. However, a stripeset may not be a VMS boot or dump device, and BACKUPs must be done on the pseudo-device, not on the member units.

A Digital Command Language (DCL) interface (CLI) is provided that enables the privileged user to define stripesets and to create and destroy the pseudo-devices that represent them. It also allows statistics and configuration information associated with the pseudo-devices to be listed.

HARDWARE REQUIREMENTS

VAX, MicroVAX, VAXstation, or VAXserver configuration as specified in the System Support Addendum (SSA 31.66.01-x).

SOFTWARE REQUIREMENTS

For Systems Using Terminals (No DECwindows Interface):

VMS Operating System

Refer to the System Support Addendum (SSA 31.66.01-x) for availability and required versions of prerequisite software.

ORDERING INFORMATION

Software Licenses: QL-YELA*-**

Software Media: QA-YELA9-**

Software Documentation: QA-YELAA-GZ

Software Product Services: QT-YELA*-**

* Denotes variant fields. For additional information on available licenses, services, 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 policies, contact your local Digital office.

LICENSE MANAGEMENT FACILITY SUPPORT

This layered product supports the VMS License Management Facility.

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

digital™

April 1991
AE-NZ29B-TE

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 about Digital's licensing terms and 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 DIGITAL Logo, DECwindows, MicroVAX, VAX, VAXcluster, VAXft, VAXserver, VAXstation, and VMS are trademarks of Digital Equipment Corporation.