StorageWorks™ Solutions

Heterogeneous Configurations with Array Controllers

Part Number: EK-HETER-UG.A01

December 1997

Digital Equipment Corporation
Maynard, Massachusetts

December 1997

Digital Equipment Corporation makes no representations that the use of its products in the manner described in this publication will not infringe on existing or future patent rights, nor do the descriptions contained in this publication imply the granting of licenses to make, use, or sell equipment or software in accordance with the description.

Possession, use, or copying of the software described in this publication is authorized only pursuant to a valid written license from Digital or an authorized sublicensor.

© Digital Equipment Corporation 1997. All rights reserved.

The following are trademarks of Digital Equipment Corporation: DIGITAL and the DIGITAL logo.

The following are third-party trademarks:
Microsoft and MS-DOS are registered trademarks and Windows is a trademark of Microsoft Corporation.

1
Heterogeneous Configurations with Array Controllers

Heterogeneous configurations are those storage configurations supporting varying operating systems and SCSI adapters. Figure 1 is an example of a heterogeneous system supplying storage devices to both a DIGITAL UNIX system and a Windows-NT system.

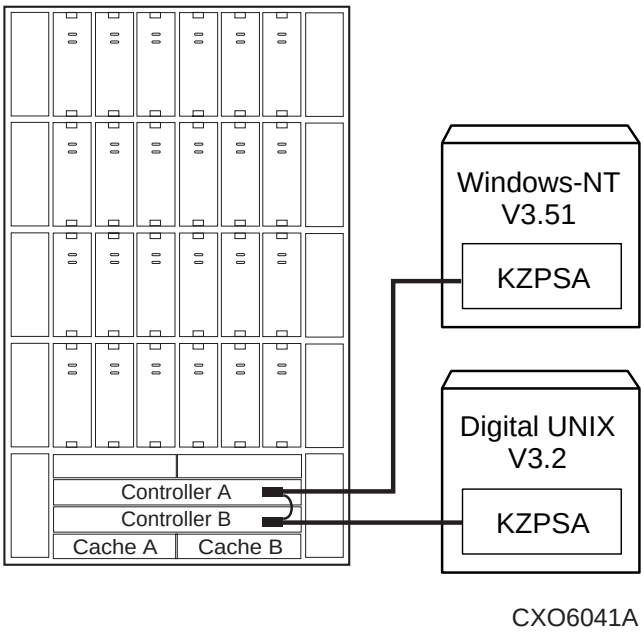

Figure 1 Sample Heterogeneous System

While the array controller will appear to be dedicated to each system separately, the SCSI bus connection will continue to be a single physical bus. In addition to standard SCSI configuration rules, the use of tape devices on a controller shared between systems should be restricted. As with any multi-host configuration, a SCSI reset issued by one host may impact the state of the other hosts' outstanding commands. Since SCSI resets can cause the tape media to rewind while in use, it is recommended that tape devices not be attached to array controllers used in multi-host configurations.

Support for Heterogeneous configurations with HSZ70 controller based solutions can be offered in the following operating systems and versions.

Operating System and Adapter	**Co-existing Operating System and Adapter**
OpenVMS V7.1 KZPSA	Windows-NT Alpha V3.51 and V4.0 KZPSA
DIGITAL UNIX V3.2g and V4.0b KZPSA	Windows-NT Alpha V3.51 and V4.0 KZPSA Windows-NT Intel V4.0 (Adaptec)
DIGITAL UNIX V3.2g and V4.0b KZPSA	OpenVMS V7.1 KZPSA

Note
Support for homogenous operating system configurations require that all operating system guidelines be followed. This includes the use of clustering and failover software. Refer to operating system SPD and release notes for supported configurations.

Multi-host configurations do not provide shared storage access. A storage device being accessed by one operating system is not available to the other operating system. With HSZ70 (HSOF V7.0), access to a disk unit can be restricted to selected host SCSI IDs.

Configurations of more than two operating systems are not supported with the array controllers.

Minimum version of Array Controller software:

Array Controller	**HSOF Version**
HSZ70	HSOF V7.0