

# Mixing Drive Interface Types in the Same Cluster



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## *Mixing Drive Interface Types in the Same Cluster*

### *Mixed LTO Fibre and LTO parallel SCSI Drives*

Mixing FC and parallel SCSI LTO drives in the same cluster will require extra care. Since the standard cabling approach cannot be used caution should be taken to keep parallel SCSI cables from causing any undue strain on the fibre cables. Lay the fibre channel cables on top of the SCSI cables when routed through the card cage, the cable channel, and the cable bracket.

In addition, ensure that all drives have their cabling adjusted so that the drives are cabled in the normal order. For example: If you have 2 parallel SCSI drives in a cluster and then install 4 FC drives in the library, the first two drives installed in the cluster are the parallel SCSI drives and are cabled to bus 0 and bus 1 on the E2400-160 card. When cabling the fibre drives, they must be cabled so that cluster 1 drive C is cabled to port 0 on the E2400-FC card, cluster 1 drive D is cabled to port 1 on the E2400-FC, cluster 2 drive A is cabled to port 2 on the E2400-FC card, cluster 2 drive B is cabled to port 3 on the E2400-FC card. All subsequent drives will need to be installed the same manner. A graphic would be really nice

**Note:** Filling clusters with mixed drive types that are not a multiple of 4 will make it impossible to load all 24 drives. For example: 14 SCSI drives will require 4 E2400-160 cards. The card cage will only hold a combination of 6 E2400-160 and E2400-FC cards.. With 4 E2400-160 cards installed, only 2 E2400-FC cards can be installed which means only 8 FC drives may be installed for a total possible drive count of 22 drives. The number of total drives lost will be equal to the number of FC drives in the drive cluster with mixed interface types.

### **Mixed LTO and SDLT parallel SCSI Drives**

This combination will be supported. HP recommends that all drives of a particular type will be contiguous. Install all the LTO drives followed by all the SDLT drives, or all SDLT drives followed by all LTO drives. While not necessary, it will allow for easier identification and debug.

**Note:** This feature will NOT be supported until September, 2004.

### *For more information*

[www.hp.com/support/esle](http://www.hp.com/support/esle)