



Read Me First

Potential Data Integrity Problem

This problem may affect users running RAID Array Controllers for RAID Array 450 (HSZ50), RAID Array 410 (SWXRC-04/05 and HSZ40), and RAID Array 310 (HSZ20). If you are running HSOFT V3.0 or V5.0 software in configurations containing mirrorsets (RAID 0 or RAID 0+1) you are exposed to a potential data integrity problem. This note has been tailored for users of DIGITAL Clusters for Windows NT who use the products listed above.

To avoid this problem, all users must accomplish one of the following two procedures.

1. If you have installed, or plan to install, RAID Manager or StorageWorks Command Console (SWCC) with your initial configuration, you do not have to do anything additional. The default settings for RAID Manager and SWCC correctly set the `MAXIMUM_CACHED_TRANSFER_SIZE` parameter to 1024.

As you use RAID Manager or SWCC, do not change the `MAXIMUM_CACHED_TRANSFER_SIZE` parameter.

2. If you have changed the default `MAXIMUM_CACHED_TRANSFER_SIZE` or if you will be using the Command Line Interpreter (CLI) and not using RAID Manager or SWCC, you must perform the following procedure. Note that the procedure must be carried out on each mirrorset or striped mirrorset in the subsystem.

Procedure

To access the RAID Controller and use the Command Line Interpreter (CLI), you must make a serial connection between your maintenance terminal, or PC, and the controller

1. Shut down both DIGITAL Cluster hosts using the normal procedure. When the operating systems are halted, power the systems OFF.
2. Determine the Target ID and LUN ID of your mirrorsets and striped mirrorsets.

```
CLI> SHOW MIRRORSETS
```

Look under the "USED BY" column and record the `Dxyy` shown, where `x` equals the TARGET ID of the mirrorset and `yy` equals the LUN ID of the mirrorset.

If you do not use mirrorset, you are not affected.

3. Ensure that the mirrorset uses `READ CACHE` and that the `MAXIMUM_CACHED_TRANSFER_SIZE` is correct by issuing the following CLI commands:

```
CLI> SHOW Dxyy
```

Look for `READ CACHE ENABLED` in the display. If read cache is disabled, enable it by issuing the following CLI command:

```
CLI> SET Dxyy READ_CACHE
```

Look for **MAXIMUM_CACHED_TRANSFER_SIZE = 1024** in the display. If **MAXIMUM_CACHED_TRANSFER_SIZE** is smaller than 1024. Change it by issuing the following CLI command:

```
CLI> SET Dxyy MAXIMUM_CACHED_TRANSFER_SIZE = 1024
```

If **READ_CACHE** is enabled and **MAXIMUM_CACHED_TRANSFER_SIZE = 1024**, you are not affected.

4. Repeat Step 3 for all mirrorsets and striped mirrorsets
5. Restart both controllers by issuing the following CLI commands.

```
RESTART OTHER_CONTROLLER  
RESTART THIS_CONTROLLER
```

6. Restart both of your DIGITAL Cluster hosts.

Verification

Use the **SHOW Dxyy** command to verify that the **MAXIMUM_CACHED_TRANSFER_SIZE** parameter is set to 1024 and that **READ CACHE** is enabled.