

# Compaq StorageWorks

---

## Read Me First: RA8000/ ESA12000 Customers

*ACS Version 8.6-4*

### *Open Card Completely Before Beginning Installation Procedures*

© 2002 Compaq Information Technologies Group, L.P.

Compaq, the Compaq logo, SANworks, and StorageWorks are trademarks of Compaq Information Technologies Group, L.P.

Microsoft, MS-DOS, Windows, and Windows NT are trademarks of Microsoft Corporation.

Intel, Pentium, Intel Inside, and Celeron are trademarks of Intel Corporation.

The Open Group, UNIX, Motif, and OSF/1 are trademarks of The Open Group.

All other product names mentioned herein may be trademarks of their respective companies.

Compaq shall not be liable for technical or editorial errors or omissions contained herein. The information is provided "as is" without warranty of any kind and is subject to change without notice. The warranties for Compaq products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty.

Printed in the U.S.A.

Read Me First: RA8000/ ESA12000 Customers  
Second Edition (January 2002)  
Part Number: AV-RPY2B-TE  
**Compaq Computer Corporation**

## Before Upgrading to ACS V8.6-4

Please note that ACS V8.6-4 requires at least 128 MB of cache for each HSG80 cache module if you are running in non-mirrored mode. If you are running in mirrored mode, each cache module must have 256 MB of cache. Note also that if you check the cache size using the SHOW THIS command when running in mirrored mode, 256 MB is reported as 128 MB of usable cache due to memory redundancy.

**NOTE:** ACS version 8.6-4 is compatible with and can be used in dual redundant pairs with ACS Version 8.6-1 plus patches 2, 3, and 4. ACS V8.6-4 is being provided for customer convenience and includes ACS V8.6-1 and patches 2, 3, and 4.

## Checking the Current HSG80 Cache Size

To display the current cache size use the SHOW CLI command:

```
SHOW THIS_CONTROLLER FULL
```

The cache size displayed for each controller should be at least 128 MB if you will be using ACS V8.6-4. If you are running in mirrored mode, the cache sizes are displayed under two headings, Cache and Mirrored Cache. Both of these must be 128 MB or larger.

## Installing the Cache Upgrade

If your controllers are currently running with less than 128 MB of cache per cache module, and you wish to upgrade to ACS V8.6-4, you:

- **Must NOT** install ACS V8.6-4.
- Must upgrade the cache. The specifics of upgrading your cache will depend on your current cache configuration and the amount of cache to which you choose to upgrade. The following are some guidelines to help you determine your upgrade strategy.
  - If your cache modules each have 64 MB of cache and, you prefer to upgrade to just 128 MB of cache, you can order and install an additional 64 MB of cache. The DIMMS order number for 64 MB of cache is 380673-B21.
  - If you want to completely upgrade the cache modules, there are options depending on whether you are running in mirrored or non-mirrored mode. DIMMS part number 380674-B21 is the cache upgrade that contains 256 MB cache (2 x 128 MB.) Note that 32 MB and 128 MB DIMMs cannot coexist, and that both cache modules must have the same configuration.

**NOTE:** If you are running in non-mirrored or mirrored mode you can meet the minimum cache requirements by ordering and installing one DIMMs kit per cache module. Note that using this scenario, non-mirrored mode would have 256 MB of usable cache per controller, and mirrored mode would have 128 MB of usable cache per controller.

If you want to upgrade to fully-loaded cache modules, order two kits for each cache module. This upgrade path will result in 512 MB of usable cache for non-mirrored mode and 256 MB of usable cache for mirrored mode.
- If you did attempt to install ACS V8.6-4, the controller will appear to operate normally, however failovers may not function correctly.
- **If you have attempted to install ACS V8.6-4**, follow the downgrade procedures and return to an ACS version prior to V8.6x until after you have upgraded your cache.

## **Upgrading Controllers**

See “Replacing DIMMs,” in Chapter 2 of the *Compaq StorageWorks HSG80 Array Controller ACS Version 8.6 Maintenance and Service Guide* for the procedures to replace the DIMMs in your controllers.

## **Installing Array Controller Software Version 8.6-4**

See “Upgrading Controller Software,” in Chapter 5 of the *Compaq StorageWorks HSG80 Array Controller ACS Version 8.6 Maintenance and Service Guide* for details about installing a new version of ACS software.

## **Downgrading Controller Software**

See “Downgrading Controller Software,” in Chapter 5 of the *Compaq StorageWorks HSG80 Array Controller ACS Version 8.6 Maintenance and Service Guide* for details about installing a prior version of ACS software.