
SPP-UX V5.3 Release Notice

First Edition

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B5655-96050

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Hewlett-Packard Company
Richardson, Texas
United States of America

SPP-UX V5.3 Release Notice

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Overview

This release notice describes the V5.3 release of Hewlett-Packard SPP-UX. Please refer to this document before reporting problems; your questions may be answered here.

Requirements

This section describes hardware and software requirements for the V5.3 release of Hewlett-Packard SPP-UX.

Hardware requirements

The V5.3 release of SPP-UX supports the Exemplar SPP 1200, SPP 1600, and S-Class and X-Class SPP 2000/2200 systems. Exemplar SPP 1000 systems are not supported with this release.

Software prerequisite

This software distribution supports upgrade paths from all previous releases of Exemplar software. The release is directly upgradeable from any 5.x release and upgradeable via a scratch install path for all previous releases.

Software corequisites

The V5.3 release of SPP-UX has the following software corequisites:

- For Hewlett Packard Exemplar S-Class SPP 2000/2200 servers
 - OpenBoot firmware must be at version V3.1.7 or later.
 - Test station diagnostic and EST software, where installed, must be at Version 4.1.
- For Hewlett Packard Exemplar SPP 1200 and SPP 1600 servers
 - OpenBoot firmware must be at version V2.0.3 or later.
 - Test station diagnostic and EST software, where installed, must be at Version 8.0.
- All layered products, including compilers and tools, must be those that accompany the SPP-UX V5.3 distribution.
- The test station diagnostic and Open Boot firmware must be installed on your Exemplar test station and the layered products on your SPP immediately after you install the Exemplar software upgrade.
- The test station software tape contains new HIPPI firmware that is needed for SPP-2000/2200 installations. See the *SPP-UX 5.3 Distribution Notice* for details.

Configuration restrictions

The following configuration restrictions must be met on your Exemplar system in order to run SPP-UX V5.3:

- Each Exemplar S-Class and X-Class hypernode must have between 256MB and 4GB of physical memory.
- A default pager partition must remain active on each hypernode at all times.
- The root filesystem must not be a large filesystem.

Upgrade prerequisites

Exemplar systems must be running SPP-UX 5.2 or greater. The Exemplar 1200/1600 associated test stations must be running HPUX 9.05, and the Exemplar S-Class and X-Class associated test stations must be running HPUX 10.20. Please refer to the *SPP-UX 5.3 Distribution Notice* for upgrade instructions.

Product documentation

SPP-UX V5.3 is documented in:

- *SPP-UX V5.3 Distribution Notice* (B5655-90051)
- *Exemplar Architecture: S/X Class* (A4716-90001)
- *Guide to Exemplar Documentation* (B5655-90044)
- *Tape Integration Guide* (A4716-90025)
- *Layered Products Patch Release Notice* (B5655-90052)
- *DDS3 Installation and Service Guide* (A4716-90018)
- *S and X Class Maintenance Guide* (A4716-90023)
- *S-Class Installation Guide* (A4716-90016)
- *X-Class Installation Guide* (A4700-90001)

Licensing

The SPP-UX V5.3 release is subject to license limit enforcement. Correct operation of your Exemplar system requires a license key for each software product. If users do not acquire a license, they are instructed to contact the site system administrator for assistance.

Hewlett-Packard products are licensed using the FlexLM licensing system. Refer to the *SPP-UX V5.3 Distribution Notice* that accompanies this release and the *FLEXlm End User Manual* for licensing information.

New features

The following features are new in the SPP-UX V5.3 release:

SPP-UX checkpoint/restart support

The SPP-UX V5.3 release supports new checkpointing options.

New platform support

The SPP-UX 5.3 release supports the SPP 2200 platform.

Known problems

This section describes problems in SPP-UX V5.3 that are known at this time. Workarounds for these problems are described.

network performance tunable

Problem

You may experience a performance degradation if you have multiple network interfaces on a node and do not set the tunable "HSnet, node complex data requirement" to the proper value.

Workaround

To obtain the same performance behavior as SPP-UX 5.1, set the tunable "HSnet, node complex data requirement" to 16 on each node. For more information on this tunable see the *Exemplar Networking Guide*.

scm utility generates inconsistent data

Problem

The same information is not generated with `scm -c` and "Save" options in the scm utility. `scm -c` does not dump out the PIXMAP= line.

Workaround

None.

vm paging space

Problem

When the system runs low on resources, namely vm paging space, emulators and/or the server can hang. The system attempts to detect this situation and will print the following message or messages on the system console.

```
"out of paging space"  
"*** PAGER ERROR: pagemap_flush: no_paging_device"
```

Workaround

Create more paging space on each node.

HP Security Bulletin #42

Problem

`/usr/sbin/fpkg2swpkg` allows unauthorized root access on all 10.XX releases of HP-UX.

Workaround

Remove the suid bit of `/usr/sbin/fpkg2swpkg`.

```
chmod -s /usr/sbin/fpkg2swpkg
```

HP Security Bulletin #49

Problem

Vulnerability in the `chfn` command.

Workaround

Install PHCO_9595 for SPP-UX V3.X/4.X or PHCO_9596 for SPP-UX V5.3

HP Security Bulletin #50

Problem

Vulnerability in the `chsh` command.

Workaround

Install PHCO_9600 for SPP-UX V3.X/4.X or PHCO_9601 for SPP-UX V5.3.

crashdump HPMC

Problem

If you have HPPI installed as one of your network devices, you may experience a crashdump HPMC like the following:

```
Initiating crashdump on node 0
[0:0] crash-machine_shutdown: CPU 0 interrupting other CPUs
[0:0] Clearing OBP master lock
[0:0] flush_network_cache currently not implemented...
[0:0] flush_network_cache currently not implemented...
[0:0] SPP-UX_mk 5.1.129 L34 sonny-f:[tac.5.1.129]/ss/src[SPP3_FAST]
[0:0] crash_part_scan: searching for crashdum partitions
[0:0] crash_part_scan: alias 'crashpartc:a' partition
'/pci@fe,90000/qlisp@1000,0/sd@c,0:a'
High-priority machine check
[0:0] debug
```

This problem should only occur if you have a HPPI device installed on the same EPIC as the PCS SCSI controller that is connected to the disk device that contains your crashdump partition.

Workaround

Contact the HP Technical Assistance Center at 1-800-952-0379 for a firmware patch to alleviate this condition.

Getting assistance

If you have questions about SPP-UX V5.3, contact the Hewlett-Packard Response Center. To contact the Response Center, use one of the following phone numbers:

- Within the continental U.S., call 1(800)952-0379.
- From Canada, call 1 (800) 345-2384.
- All other locations, contact the nearest Hewlett-Packard Response Center.

The Response Center recommends using the `contact` utility to report a hardware, software, or documentation problem. Refer to the `contact(1)` man page for complete details.