

Read Before Installing or Updating

HP-UX 11i v3

March 2008



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Acknowledgments

This product includes software developed by the Apache Software Foundation. This documentation is based on information from the Apache Software Foundation (<http://www.apache.org>).



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Welcome to HP-UX 11i v3

HP-UX 11i v3 delivers the highest level of integrated virtualization and automation. HP-UX 11i v3 dynamically reduces complexity and cuts deployment times to maximize return on investment.

This DVD booklet provides the following information:

- Contents of the HP-UX 11i v3 media kit.
- Descriptions of the Operating System and Operating Environments.
- New and updated products included in this release. See the *HP-UX 11i v3 Release Notes* for details.
- Critical, late-breaking cold-install and update issues not in the *HP-UX 11i v3 Installation and Update Guide*.

See the *HP-UX 11i v3 Installation and Update Guide* supplied with the HP-UX 11i v3 media kit. This guide has step-by-step instructions and a known problems appendix.

You can access the guide and others on the Instant Information DVD and the HP Technical Documentation Web site:

<http://docs.hp.com/hpux/os/11iv3>

Media Kit Contents

This guide is part of the HP-UX 11i v3 media kit, which includes the following DVDs and documents:

- **HP-UX 11i v3 (B.11.31) DVD (2-DVD set)** — Contains the HP-UX Operating System (OS), Operating Environments (OEs), required networking software, Update-UX, Ignite-UX, and online diagnostics.
- **HP-UX 11i v3 (B.11.31) Application DVD** — Contains HP-UX application software.
- **HP-UX 11i v3 Instant Information DVD** — Contains HP-UX manuals, release notes, and white papers. See the DVD booklet for more information.
- ***Read Before Installing or Updating to HP-UX 11i v3*** — (this document) Provides last-minute information for HP-UX 11i v3. Read this booklet before cold-installing or updating HP-UX 11i v3.

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- ***HP-UX 11i v3 Installation and Update Guide*** — Describes the media kit and instructions to cold-install or update to the latest release of HP-UX.
 - ***HP-UX 11i v3 Release Notes*** — Describes new features and functionality changes for HP-UX 11i v3. Release Notes are available on the Instant Information DVD and the HP Technical Documentation Web site:
<http://docs.hp.com/en/oshpux11iv3>
 - ***Configuring HP-UX for Different Languages*** — This book is provided in localized media kits. The English version of this manual is on the Instant Information DVD and the HP Technical Documentation Web site:
<http://docs.hp.com/en/oshpux11iv3>
 - ***VSE Management Software Installation and Update Guide Version A.03.00.01*** — Describes the VSE Management Software system requirements and installation instructions. Please review this document before installing the optional VSEMgrmt package in the OE. This guide is also available on the HP Technical Documentation Web site
<http://docs.hp.com/en/T2786-90157/>
For more information about the VSEMgrmt package in the OE, see the *HP-UX 11i Version 3 March 2008 Release Notes*.

NOTE: You should also consult the *VSE Management Software Release Notes Version A.03.00.01* for late additions and corrections to the VSE Management Software documentation. This document is available on the Instant Information media and on the HP Technical Documentation Web site: <http://docs.hp.com/en/T2786-90209/>

- ***VSE Management Software Quick Start Guide Version A.03.00.00*** — Describes post-installation steps that are required to configure the VSEMgr package after installation from the OE. This guide is also available on the HP Technical Documentation Web site:
<http://docs.hp.com/en/T2786-90092/>

Note The media kits for the Virtual Server Operating Environment and the Data Center Operating Environment also include the HP-UX 11i v2 HP Integrity Virtual Machines (HPVM) Version 3.5 and HP-UX 11i v2 Foundation Operating Environment.

Important HP Integrity Virtual Machines (HPVM) cannot be installed on a system that has HP-UX Virtual Partitions (vPars) software installed. There is a check during Virtual Machines installation preventing it.

Original HP-UX 11i v3 Operating Environments

Operating Environments (OEs) are tested and integrated application bundles designed to work with the operating system and provide the functionality needed for your system's purpose.

The March 2008 release of HP-UX 11i v3 is the last full Operating Environments Update Release provided for the original HP-UX 11i Operating Environments listed in Table 1, "Original HP-UX11i v3 Operating Environments," on page 9.

Information on transition, support, and mapping from original to new HP-UX 11i v3 Operating Environments can be found at:

www.hp.com/go/tov3oes

The following lists the original HP-UX 11i v3 OEs.

Table 1: Original HP-UX11i v3 Operating Environments

Original OE	Description
Foundation OE (FOE)	Designed for the demands of Web servers, content servers, and front-end servers, this OE includes applications such as HP-UX Web Server Suite, Java™, and Mozilla Application Suite. This OE is bundled as HPUX11i-OE.
Enterprise OE (EOE)	Designed for database application servers and logic servers, this OE contains the HP-UX 11i v3 Foundation OE bundles and additional applications such as GlancePlus Pak to enable an enterprise-level server. This OE is bundled as HPUX11i-OE-Ent.
Mission Critical OE (MCOE)	Designed for the application servers and database servers, this OE contains the Enterprise OE bundles, plus applications such as HP Serviceguard and Workload Manager to enable a mission-critical server. This OE is bundled as HPUX11i-OE-MC.
Technical Computing OE (TCOE)	Designed for server applications, this OE contains extensive graphics applications and Math Libraries. This OE is bundled as HPUX11i-TCOE.

New HP-UX 11i v3 Operating Environments

With the March 2008 release, HP presents a set of new Operating Environments for version 3 of HP-UX 11i. These new Operating Environments, listed in Table 2, “New HP-UX11i v3 Operating Environments,” on page 11, provide a richer set of products and improved choices over the original set of HP-UX 11i OEs.

Information on the new v3 Operating Environments can be found at:

www.hp.com/go/hpux11iv3

Information on transition, support, and mapping from original to new HP-UX 11i v3 Operating Environments can be found at:

www.hp.com/go/tov3oes

The following lists the new HP-UX 11i v3 OEs.

Table 2: New HP-UX11i v3 Operating Environments

New OE	Description
Base OE (BOE)	Provides integrated HP-UX functionality for less complex deployments. The BOE contains all the applications included in the Foundation OE, and improves the bundle set by adding much-requested products such as Process Resource Manager (PRM), APA, as well as math libraries and graphics for technical computing applications. This OE is bundled as HPUX11i-BOE.
Virtual Server OE (VSE-OE)	Designed for customers seeking higher resource utilization or embarking on consolidation projects and need virtualization for a flexible UNIX environment. The VSE-OE contains all the products included in the BOE (and the original EOE) and adds a host of other products including the entire VSE Suite. This OE is bundled as HPUX11i-VSE-OE.
High Availability OE (HA-OE)	For customers requiring high availability for large mission critical applications, this OE contains all the products included in the BOE (and the original EOE), plus applications such as HP Serviceguard and HA toolkits required to enable a mission-critical server. This OE is bundled as HPUX11i-HA-OE.

Table 2: New HP-UX11i v3 Operating Environments

New OE	Description
Data Center OE (DC-OE)	The Data Center OE provides business critical virtualization by combining the robust product selection in the VSE-OE and HA-OE in one integrated and tested bundle. This OE contains all the products included in the BOE, VSE-OE, HA-OE (and the original MCOE) and is bundled as HP-UX11i-DC-OE.

Use Subscriber's Choice for Latest Firmware Updates

HP recommends that you sign-up for Subscriber's Choice so you can automatically receive email notices for the latest firmware updates. Make sure you register all your products to receive the appropriate firmware update notices.

You can also go to the Business Support Center Web site at **<http://www.hp.com/go/bizsupport>** for the latest HP-UX 11i firmware updates. The IT Resource Center (ITRC) Web site at **<http://itrc.hp.com>** also provides a link to the Business Support Center.

To obtain the system firmware files, installation instructions, and release notes with detailed firmware version information select **Download Drivers and Software** at:

<http://www.hp.com/bizsupport>

This site provides a searchable database for various products or you can follow the **Server** link to select the latest firmware download for your specific server product.

Make sure you read the Release Notes for the firmware to ensure a successful update. In general, HP recommends that you update to the latest firmware available before installing or updating to HP-UX 11i v3.

For a matrix of system firmware for I/O adapters with HP-UX 11i v3 boot support, as well as the minimum system firmware requirements for HP-UX 11i v3, refer to the documents at:

<http://docs.hp.com/en/hw.html#System%20Firmware>

What's New in This Release

This section provides a quick overview of what is new, has changed, and has been deprecated or obsoleted in the HP-UX 11i v3 March 2008 release. For detailed product information, see the *HP-UX 11i v3 Release Notes* on the Instant Information DVD and the HP Technical Documentation Web site:

<http://www.docs.hp.com/en/oshpux11iv3.html>

Note Updating from HP-UX 11i v1 to HP-UX 11i v3 is not supported. You must first update to an HP-UX 11i v2 Operating Environment. However, you can do a cold install of HP-UX 11i v3 if you are running HP-UX 11i v1. Please see the *HP-UX 11i v2 Installation and Update Guide* for information on how to update from HP-UX 11i v1 to HP-UX 11i v2. In addition, make sure your system meets the minimum system and disk space requirements before updating from HP-UX 11i v2 to HP-UX 11i v3.

New Products in HP-UX 11i v3

This section lists the new products included in the HP-UX 11i v3 March 2008 release.

For a list of the associated bundle tags, refer to the *HP-UX 11i v3 Installation and Update Guide*. For information on these products, refer to the *HP-UX 11i v3 Release Notes*.

New Product	Description
HP-UX 11i v3 Operating Environments	With the March 2008 release, HP presents a set of new Operating Environments for HP-UX 11i v3. These new OEs provide a richer set of products and improved choices over the original set of HP-UX 11i OEs.
Graphics	Newly delivered as an optional product in the HP-UX 11i v3 BOE, VSE-OE, HA-OE, and DC-OE.
FibrChanl-02	First release on HP-UX 11i v3: recommended product on all OEs. Driver for the Fibre Channel HBAs.
Proximity Topology	Provides a mechanism to programmatically determine this proximity topology in order to make informed decisions to minimize cache-to-cache latency.

New Product	Description
EMSWeb	Event Monitoring Service (on SAM) is now available as EMSWeb tool on the HP System Management Homepage (HP SMH). Provides both web-based GUI and TUI.
HP Caliper	A general-purpose performance analysis tool for applications, processes, and systems. Allows you to understand the performance and execution of an application and to identify ways to improve its run-time performance. Newly added as a recommended product to the BOE, HA-OE, VSE-OE, DC-OE.
HP Process Resource Manager	Newly delivered as a recommended product in the BOE, VSE-OE, HA-OE, and DC-OE.
HP-UX Virtual Partitions (vPars)	Version A.05.03 enables multiple instances of the HP-UX 11i v3 OE to run simultaneously on one server or within one nPartition, with each OE instance hosting its own set of applications in a isolated environment. Newly added as an optional product to the HP-UX 11i v3 VSE-OE and DC-OE.
HP-UX Workload Manager	Newly delivered as a recommended product in the VSE-OE and DC-OE.
Workload Manager Toolkits	Newly delivered as a recommended product in the VSE-OE and DC-OE.

New Product	Description
<p>HP Virtual Server Environment (VSE)gmt)</p>	<p>Integrates with HP SIM to provide intelligent control of your virtualized environment from one location. Components assist in planning and automating system and application management tasks, and allow you to optimize server utilization in real time by creating virtual servers that can automatically grow and shrink based on business priorities and service-level objectives. The following VSE products/components are delivered as optional or recommended products on the new OEs:</p> <ul style="list-style-type: none"> - HP Integrity Essentials Capacity Advisor - HP Integrity Essentials Global Workload Manager - HP Integrity Essentials Virtualization Manager - HP Integrity Virtual Machines Manager - HP Partition Manager
<p>MirrorDisk/UX</p>	<p>MirrorDisk/UX is the mirroring component of Logical Volume Manager, and prevents data loss due to disk failures by maintaining multiple copies of data on separate disks. MirrorDisk/UX is newly delivered as a recommended product in the VSE-OE, HA-OE, and DC-OE.</p>
<p>NUMA Policy</p>	<p>NUMA policy is a tunable and a set of related kernel enhancements that exploit the localities within platforms having a Non-Uniform Memory Architecture. This contrasts with the default symmetric policy that treats all platform resources equally.</p>

New Product	Description
HP Auto Port Aggregation	Added to as an recommended product to the BOE, HA-OE, VSE-OE, DC-OE. Is a software product that creates link aggregates, often called “trunks,” which provide a logical grouping of two or more physical ports into a single “fat pipe.” This port arrangement provides more data bandwidth than would otherwise be available. In addition, HP APA provides automatic link failure detection and recovery, and optional support for load balancing of network traffic across all of the links in the link aggregate.
HP-UX Auditing System Extensions	Provides enhancements to the existing HP-UX auditing system, audit(5). Offers tools to configure and enforce the data filtering policy for auditable file operations on your system. Policy is rule-based and can be customized for different file system partitions. Delivered as an optional product on all OEs.
HP-UX Role-based Access Control Extension	Introduces a set of privilege shells, allowing a non-root user to automatically invoke privrun when needed by simply configuring a privilege shell as their default shell. Includes integration with HP System Management Homepage and integration of access control logic directly into select commands. Delivered as an optional product in all OEs.

New Product	Description
aC++ Linker Driver (aCC_link)	Invokes the HP-UX linker. Command is made available for linking aC++ objects for deployment on end-user systems. Explicitly disallows certain aCC(1) options used to compile. Newly delivered as a recommended product on the BOE, HA-OE, VSE-OE, and DC-OE.
Copy-On-Write Functionality for Private Memory Objects	Provides copy-on-write functionality for privately mapped files, private segments of child process after fork(2) and private segments locked by mlock(2).
getenv Performance Enhancement	Enhances the performance of the libc API getenv(3C) for threaded applications. Delivered as an optional product in all OEs.
HP MLIB	In TCOE, V9.5 includes a defect fix. HP MLIB is newly delivered as an optional product in VSE-OE, HA-OE, and DC-OE.
HP-MPI	Newly delivered as an optional product in BOE, VSE-OE, HA-OE, and DC-OE
HP Wildebeest Debugger	An HP-supported implementation of the Open Source GNU debugger (GDB). Enables you to debug C, C++, and FORTRAN applications (32 bit and 64 bit versions) on Integrity and PA-RISC systems. Newly added as a recommended product to the BOE, HA-OE, VSE-OE, DC-OE.

New Product	Description
HP-UX Atomic APIs (libatomic)	Usage of these APIs avoid the use of mutex locks or semaphores in certain scenarios. Delivered as an optional product in all OEs.
Improved Support for Multi-threaded Applications	Extends the mpctl(2) API and adds several new APIs to improve HP-UX support for multi-threaded applications. Provides the capability to have finer-grain control.
Kernel Access Infrastructure	HP-UX Virtual Memory provides a new set of APIs to map user virtual addresses into the kernel. Useful as a copy avoidance solution where user data can be accessed and modified by kernel contexts, avoiding the copying in and out of data when system calls are invoked.
libc Enhancement	Contains a new API called memsetU16(3C), which can be used for memory operations to set area in memory to contain 2-byte word. Delivered as an optional product in all OEs.
Accelerated Virtual I/O (GuestAvioLan)	Delivers a new re-architected I/O path for HPVM. Newly delivered as a recommended product on the HP-UX 11i v3 BOE, HA-OE, VSE-OE, DC-OE, and the FOE, EOE, MCOE, TCOE.
patch_active_text	Allows mprotect() write access to the text of a running process such that the active text can be modified.

Updated Products in HP-UX 11i v3

This section lists products that have changed, and have been deprecated or obsoleted in the HP-UX 11i v3 March 2008 release.

For a list of the associated bundle tags, refer to the *HP-UX 11i v3 Installation and Update Guide*. For detailed information on these products, refer to the *HP-UX 11i v3 Release Notes*.

Updated Product	Description
HP-UX WBEM Online Operations Service Provider	Updated to incorporate a defect fix.
Software Pack (Optional HP-UX 11i v2 Core Enhancements)	Several Software Pack products are available in the Operating Environments as optional products.
Hardware Enablement Patch Bundle (HWEEnable11i) for HP-UX 11i v3	Provides support for new PCI-Express I/O adapters in HP Integrity Servers, and HP-UX support for HP servers with PA8900 processors and the sx2000 chipset. Includes new patches that enable the HP Insight Power Manager (IPM) for supported systems with Intel® Itanium® processors 9100 series.

Updated Product	Description
HP Instant Support Enterprise Edition	Updated to version A.03.95.520.22.05. Provides minor defect fixes. HP Runner is no longer bundled with HP ISEE installations.
Mass Storage Stack	Updated with performance and usability enhancements to manage multi-pathed disks and disk arrays.
I/O Subsystem	I/O Subsystem: The <code>rmsf</code> command supports the <code>-H</code> option with the <code>-x</code> option to remove stale device special files associated with a specific hardware path. Adding or deleting CPUs redistributes I/O interrupts more equitably across the CPUs. And more.
CommonIO	Updated with quality improvements.
FibrChanl-00	Updated to add support for users to update the EFI driver for the Tachyon XL2 (A6795A) Fibre Channel HBAs using the FC Mass Storage utility <code>/opt/fcms/bin/fcmsutil</code> .
FibrChanl-01	Updated to incorporate defect fixes.
IB4X-00	Updated to incorporate defect fixes.
RAID-01	Updated with quality improvements.
scsiU320-00	Updated with quality improvements.

Updated Product	Description
SerialSCSI-00	Updated with quality improvements.
USB-00	Updated to version C.01.05.08. Install kernel for the HP-UX 11i March 2008 release contains an EHCI driver (USB 2.0 hi-speed capability) significantly decreases the time necessary for installs from local USB devices. Includes defect fixes.
iCAP (Instant Capacity)	Updated with defect fixes and several enhancements, including GiCAP Disaster Recovery, which allows customers to transfer usage rights to other group members when a member is unavailable.
Enterprise Cluster Master Toolkit	Newly added as a recommended product to the HA-OE and DC-OE. Supports Storage Management Suite version 2.0 on HP-UX 11i v3.
Feature Enablement Patch Bundle (Feature11i)	Updated for HP-UX 11i v3 with new patches that enhance new core features (including performance) and enable the support of the vPars, Version 2.0 LVM volume groups, HPVM, and new core products.
HP GlancePlus Pak	Updated to version 4.70. A set of new metrics have been added in HP Performance Agent.
Online Diagnostics	Supports new I/O cards, added support for handling PCI-express errors, provides support for hot pluggable disks, and more.

Updated Product	Description
Quality Pack Patch Bundles	Stable, defect-fix patch bundles for the OS and applications. In this release, both the Base Quality Pack bundle and the Applications Quality Pack bundle are provided.
HP Serviceguard	Now delivered as a recommended product in the HA-OE and DC-OE. Other updates available independent of the OEs.
HP Serviceguard NFS Toolkit	Documentation updated to include information about support for Veritas Cluster File System (CFS).
Ignite-UX	Version C.7.5 includes recovery support for Agile SAS addressing, improved small memory install performance, support for new hardware.
Software Distributor	Updated to incorporate defect fixes.
Software Package Builder	Updated to incorporate defect fixes.
System Fault Management	Now the default monitoring mode. Supports PCI Express interface events on selected systems. New providers are introduced; MP Provider is enhanced. More enhancements are included, as well as defect fixes.
nPartition Configuration Commands	Updated to version B.11.31.0803 to incorporate defect fixes.

Updated Product	Description
nPartition Provider	Updated to version B.31.01.10.03 to incorporate defect fixes.
vPar Provider	Updated to version B.11.31.01.02 to incorporate defect fixes.
HP Integrity Virtual Machines Provider (VM Provider)	Upgrade to A.03.50 supports the new features of HP Integrity Virtual Machines A.03.50.
HP Integrity Virtual Machines (VMGuestLib)	Upgrade from version A.03.00 includes support for the new features of HP Integrity Virtual Machines A.03.50.
HP System Management Homepage (SMH)	Updated to version A.2.2.8 to incorporate defect fixes.
HP Systems Insight Manager (SIM)	Updated to version 5.2. Provides ability to discover all nPars in a complex, including those not currently active, from information gathered in one nPar and the ability to discover all vPars in a vparmonitor, including those not currently active, from information gathered in one vPar. New Manage Communications feature enables you to troubleshoot communication problems between the CMS and the managed systems. Includes much more.

Updated Product	Description
HP-UX Disks and File Systems	LVM operations are more scalable now because of the enhanced limits on VGs, LVs, and PVs. Includes other changes.
Distributed Systems Administration Utilities (DSAU)	Supports cross subnet Serviceguard configurations.
Dynamic Root Disk (DRD)	Supports cloning of a VxVM root on HP-UX 11i v3. Introduces the DRD status command, which allows the user to easily view clone information on the system.
HP-UX Kernel Configuration (kcweb)	Provides two new features: manage kernel configuration and restore the kernel configuration values of tunables and modules from the previous boot.
Logical Volume Manager	This release of LVM supports two versions of volume groups. Version 2.0, which is new in the March 2008 release of HP-UX 11i v3, enables the configuration of larger volume groups, logical volumes, physical volumes, and other parameters.
Network Interfaces Configuration and Network Services Configuration	Updated to incorporate defect fixes.

Updated Product	Description
Obsolescence Bundle	Used during an update when obsolete software on the system needs to be removed; automatically selected for updates. Will remove several obsolete or incompatible products and/or drivers, including TechSysConf.
HP WBEM Services for HP-UX	Updated to version A.02.07: Major update includes IPv6 Enablement, Audit Logging, Repository Archive, Indication Subscription Management, and Privilege Separation.
HP-UX WBEM Fibre Channel Provider	Now supported by the System Management Homepage. New classes have been added to provide additional information.
HP-UX WBEM Kernel Providers	Bundle now contains the Swap provider, and the Boot and Crash Dump providers.
HP-UX WBEM LVM Provider	Updated to support association between a VolumeGroup and the LogicalVolumes created within the group, and other configurations.
HP-UX WBEM RAIDSA Provider	New classes have been added to get the consolidated health status of the Smart Array HBAs available on the system.
HP-UX WBEM SAS Provider	New classes have been added to get the consolidated health status of the SAS HBAs available on the system.

Updated Product	Description
HP-UX SCSIProvider	Now supported by the HP System Management Homepage.
ONCplus	Updated to B.11.31.02. Provides defect fixes and new features, including full NIS 2.3 client functionality (with the exception of password.adjunct support); full CacheFS 2.3 functionality; optimized performance in several areas of NFS; and more.
LDAP-UX Integration	Version B.04.15 provides new LDAP user/group command-line tools.
Red Hat Directory Server	Version B.07.10.30.01 mainly provides a SD defect fix.
HP-UX Apache-based Web Server	Updated as primarily a security/defect-fix release.
HP-UX Tomcat-based Servlet Engine	Updated to version 5.5.23.00. Implements the Servlet 2.4 and JavaServer Pages 2.0 specifications.
HP-UX Webmin-based Admin	Primarily a defect-fix release.
BIND	Updated to version 9.3.2 to incorporate defect fixes.
Sendmail	Updated to version 8.13.3. Incorporated defect fixes. New command-line option, -T, included in identd(1M).

Updated Product	Description
WU-FTPD	Updated to version 2.6.1 to incorporate defect fixes.
HP-UX Bastille	Updated to version B.3.0.31 incorporate defect fixes.
HP-UX Auditing and Security Attributes Configuration (secweb)	You will have access to both the Audit Configuration functional area of legacy SAM and the auditing functionality in the HP-UX Auditing and Security Attributes Configuration tool in HP SMH. Includes defect fixes.
HP-UX IPFilter	Updated to version B.3.0.31 incorporate defect fixes.
HP-UX Secure Shell	Updated to version A.04.70.005. The sshd daemon defaults to SSH Protocol 2 in new installations; SSH channel window size has been increased; ssh command and sshd daemon now preserve MAC contexts between packets; new MAC algorithm has been added; and more.
HP-UX Software Assistant	Will print Security Patch Check depreciation messages when the Security Patch Check tool is invoked.
Java JDK/JRE for HP-UX	JDK/JRE version 5.0 and SDK/RTE 1.4.2 have been updated to incorporate defect and security bulletin fixes.
Java Out-of-Box	Updated to version 2.05.00 to incorporate defect fixes.

Updated Product	Description
intctl(1M) and intrbald(1M) Commands	Enhanced to allow manual and automatic interrupt balancing based on user configuration files, with a choice of balancing algorithms.
ioscan(1M) Command	Enhanced to show a new driver property that indicates if the driver supports online instance number replacement.
mpsched(1) Command	Enhanced so you can now change the affinity of a thread/light weight process to a particular SPU or locality domain. You can also query the binding of a light-weight process or unbind the same.
rmsf(1M) Command	Enhanced to support Critical Resource Analysis (CRA) on a node or special file before deleting it, and to support specifying a stale I/O node by hardware path.
rtsched(1) Command	Enhanced to allow the change of the real time priority and/or scheduling policy of a thread/light weight process with the -G option.
Korean iconv Codeset Converters	The iconv converters for converting data between Korean EUC encoding and Unicode are updated to align the character mappings to match that of Microsoft Windows and other UNIX platforms.

Known Problems

This section contains critical, late-breaking information that was not included in the *HP-UX 11i v3 Installation and Update Guide*.

Before cold-installing or updating to HP-UX 11i v3, make sure you read this entire section and *Appendix A, Known Problems and Troubleshooting*, in the *HP-UX 11i v3 Installation and Update Guide*.

For information and patches for other known problems, go to the HP IT Resource Center Web site:

<http://itrc.hp.com>

Online Diagnostics No Longer Started by Default

With the HP-UX 11i v3 March 2008 release, Online Diagnostics are no longer started by default. Traditionally, ISEE depends on Online Diagnostics (EMS listener) for event detection, however, if it is not started and you notice anomalies in ISEE operation especially with regard to which events are submitted, consult the *ISEE Installation and Configuration Guide*.

What To Do

To check which version of diagnostics is running, run the following command:

```
sfmconfig -w -q
```

If the results show that only System Fault Manager is running without Online Diagnostics (EMS listener) on your HP-UX device, and anomalies exist in ISEE operation especially with regard to which events are submitted, please consult the *ISEE Installation and Configuration Guide* for additional information and instructions at:

www.hp.com/learn/isee

Cold Install and VxVM Fails in HPVM Guest

Due to a limitation on the length of the pathname to backing store volumes, cold-installing HP-UX 11i v3 fails in an HPVM guest. The install fails with the following error:

```
NOTICE: VxVM vxdump V-5-0-34 added disk array OTHER_DISKS, datatype
= OTHER_DISKS
VxVM vxdisk ERROR V-5-1-5433 Device disk1_p2: init failed: Device
path not valid
* smapi listener returned "ACTION_FAILURE" for message
"CREATE_GROUP"
The configuration process has incurred an error, would you like
to push a shell for debugging purposes? (y/[n]):
```

The problem can also manifest itself after cold install, with any attempt to use VxVM on a guest HPVM virtual device whose backing store pathname is too long. This issue will be fixed in a subsequent release of VxVM.

What To Do

Restrict the length of the pathname to a backing store volume. If using VxVM volumes as backing store, the combined number of characters in the volume group name and the volume name must not exceed 9.

For all backing stores (including VxVM, LVM or raw disk), the full pathname to the backing store device or volume must not exceed 23 characters.

Web Resources

For additional help when cold-installing or updating HP-UX 11i v3 and related products, go to the Web:

- HP Software Releases & Media:
[http://www.hp.com/software/releases/ \ releases-media2/index.html](http://www.hp.com/software/releases/releases-media2/index.html)
- Guides in various languages:
<http://docs.hp.com>
- Latest HP-UX 11i v3 guides and white papers:
<http://docs.hp.com/en/oshpux11iv3.html>
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