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HITACHI エンタープライズサーバ EP8000 シリーズ マシンコード更新手順

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EP8000 630 model 6C4/6E4 変更内容と来歴

3R070425	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • A problem was fixed that caused a failure with error code 20EE000B when upgrading to later AIX versions with large boot images.
3R061030	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • A problem was fixed that caused the ring indicate power-on function (in the service processor menus) to power on the system even though it was set to "disabled". • A problem was fixed that caused the system to hang at E52A when rebooted after SRC B1274634 ("SPCN loop fault") was reported.
3R060917	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • A problem was fixed that was causing the calls to system firmware to set the time-of-day clock to take too long and prevent interrupts on single processor systems. This can cause adapter errors due to overruns which may result in hangs or retries depending on the adapters and system activity.
3R060626	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • A problem was fixed that was causing enhanced error handling (EEH) error codes to be erroneously generated when certain adapter card configurations were heavily stressed by the application code. • A problem was fixed that was causing the system to crash when error data was retrieved.
3R060109	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • Fixed a problem that was causing the AIX logical location codes of the Ethernet ports to be incorrect when several types of multi-port Ethernet adapter cards were replaced using the PCI hot-plug function.
3R051101	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • The firmware was changed so that the time-out for firmware console selection is 60 seconds no matter how many devices are attached to the system or partition. • Firmware was updated to fix intermittent failures of the AIX command "shutdown -t" to power on.
3R050715	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • Fixes a problem that causes the system to crash when AIX tries a reset on a slot which is already in the reset state.

	<ul style="list-style-type: none"> • Added support for address request protocol (ARP). • A problem was fixed that was causing the firmware to report an error on an I/O slot when no I/O adapter card was present. • An invalid error code callout for clock errors was fixed. • Change made to collect hypervisor dump as part of snap command. • Change made to mask interrupts for a specific slot if a problem is encountered with an I/O adapter. • Resolves a problem that prevented the hard reset of a partition from working every time. • Resolves the problem that caused informational firmware events (B1008FF0) to be posted after an ON/OFF event. • Resolves an issue with the firmware reset handler in order to prevent an LPAR hang condition.
3R050629	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • Corrects systemTime of Day gains observed after reboot. • A problem was fixed that was causing the PCI bus to report an error when a PCI adapter with a bridge on it was hot-plugged.
3R050405	<p><u>IMPACT:</u> Serviceability <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • Improved isolation for Remote I/O (RIO) loop failures.
3R041029	<p><u>IMPACT:</u> Function <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • Added support for network boot when target server provides preferred gateway information in bootp reply. • Added support for PCI adapters that require additional memory I/O space (Future OEM vendor requirement). • Corrects network boot problems with IBM Gigabit Ethernet adapters (FC 2969).
3R041021	<p><u>IMPACT:</u> Function <u>SEVERITY:</u> Special Attention</p> <ul style="list-style-type: none"> • Resolves issue of excessive length of time required to collect AIX dump for partitions with Service Authority assigned. • Corrects potential cause for system hang with error 40670EA1 on systems with Linux Operating System.
3R040602	<p><u>IMPACT:</u> Usability <u>SEVERITY:</u> Attention</p> <ul style="list-style-type: none"> • Added dynamic link recovery for Remote I/O loops in single I/O drawer per loop environments. • Corrects problem encountered after firmware update via diskettes with error A1FD0001 (entering recovery mode) displayed on the operator panel.

	<ul style="list-style-type: none"> • Prevents information checkpoints E900 and E901 from being displayed on operator panel during runtime for extended periods. • Increased HMC surveillance timeout value to prevent false lost of communication errors. • Corrects a condition where on a Primary I/O book with RIO-2 ports (PCI-X) a bit may be erroneously set causing a GX Data Timeout, while being reported to diags as SRN 651-900 and posting a Firmware error code of 40670EA4 (Bus test detected fault in service processor code). • Added support for system boot from devices containing boot images larger than 12MB. Must be used in conjunction with AIX 5.1 APAR IY57522 or AIX 5.2 APAR IY56839. To create a boot image larger than 12MB, you must first apply the appropriate APAR. The firmware must be at 3R040602 (or later) before the image can be restored.
3R040323	<ul style="list-style-type: none"> • Added support for system boot from tape devices containing boot images larger than 12MB. Must be used in conjunction with AIX 5.1 APAR IY54804 or AIX 5.2 APAR IY53546. To create a boot image larger than 12MB on tape media, you must first apply the appropriate APAR. The firmware must be at 3R040323 (or later) before the image can be restored. • Added support for new or replacement CPU cards manufactured after March 2004. • Improved isolation for Remote I/O (RIO) loop failures. • Corrects SCAN_ERROR_CHRP error log entries with SRC B0061406 on initial boot after AC power is removed. Only affects systems with firmware level 3R031021 installed.
3R031021	<ul style="list-style-type: none"> • Corrects cause for system crashes due to a false RIO bus timeout condition. Only affects systems with level 3R030718 installed.
3R030718	<p>注:このリリースには、たくさんの重要な改善と個々に記載するのは余りに多くの変更を含んでいます。共通に関係する項目と大きな影響がある項目だけを記載しています。お客様におかれては、このリリースの適用を強くお勧め致します。</p> <ul style="list-style-type: none"> • Corrects time loss on LPAR systems. • Enhanced error detection for RIO link failures. • Corrects system attention light blinking after a PCI hot plug operation is completed. • Corrects memory DIMM mis-isolation problem on systems equipped with 1.0 and 1.20 GHz Processors. • Corrects firmware flash update failure due to recoverable diskette errors when update is performed via Service Processor menus. • Corrects drawer ID reassignment for existing drawers when new

	drawers with duplicate IDs are added.
3R030529	<ul style="list-style-type: none"> • Added support for RIO-2 Remote I/O Hardware. • Resolved incorrect PCI adapter AIX location codes when adapters are added or reassigned via a DLPAR operation. • Corrects time loss problem on LPAR systems. • Corrects exposure to potential system crash on LPAR systems when one partition is shutdown and rebooted. • Resolved incorrect identify and power LED behavior during PCI adapter hot plug operations. • Corrects configuration problems with IBM 3581 Ultrium Tape Autoloader. • Corrects problems with tape devices not seen in some SMS menu screens. • Corrects slow menu output behavior when SMS is accessed via a graphics display. • Added Linux compatibility option to Service Processor Boot Mode menu.
RR030324	<ul style="list-style-type: none"> • Enabled configuration support for second 1-way processor card.
RR030219	<ul style="list-style-type: none"> • Corrects processor frequency output value displayed with lsattr command.
RR030205	<ul style="list-style-type: none"> • Added support for 1.45 GHz Processor cards. • Corrects system hang during boot with bad date/time stamp in AIX banner and 'default catch' message displayed on the console. • Provides potential performance enhancement for SP Switch2 PCI Attachment Adapters, Feature Code 8397. • Changed initialization routines for high performance PCI adapters to allow best use of available bandwidth. • Corrects false L3 Cache error and deconfiguration during system initialization. • Corrects failure to recognize PCI adapters equipped with PCI-X to PCI-X bridge chips during system boot. • Corrects potential cause for system hang with error B1114699 during firmware flash update. • Resolves incorrect I/O drawer FRU location codes posted by diagnostics. • Prevents logging of false error condition B1xx8FF0 in Service Processor and AIX error logs during firmware flash update.

	<ul style="list-style-type: none"> • Contains potential minor performance enhancement for PCI adapters internal to the system unit. • Corrects problem with tape devices not appearing in the SMS 'Select Boot Options' menu. • Corrects behavior where the system will automatically boot from tape device when SMS 'List All Devices' option is chosen. • Corrects truncation of FRU location codes in SMS error log. • Corrects potential cause for system hang during boot at checkpoint EAA1 and/or error code 26020010. • Corrects configuration problem during hot-plug operation for IBM Long-Wave Serial HIPPI PCI Adapter, Feature Code 2733. • Corrects ping and NIM boot failures with error 20A80001 on IBM 10/100MBps Ethernet PCI Adapter II, Type A-F, Feature Code 4962. • Corrects potential cause for system hang during boot at checkpoint 91FF.
RR021114	<ul style="list-style-type: none"> • Added support for IBM 7311 Rack-Mounted High-Density Expansion Drawer Model D20. • Added support for Dynamic Logical Partitioning (DLPAR). • Added support for the performance correction on a variety of High Performance PCI adapters. • Corrected potential cause for system hang with errors 4B2E26FB, 4B2E26FD or 40640EAF during firmware flash update.
RR021024	<ul style="list-style-type: none"> • Corrects potential L3 cache data recovery error.
RR020927	<ul style="list-style-type: none"> • Corrected system name not being updated in SP menu after set via HMC. • Enhanced error isolation for error 40670EA1. • Corrected system hang condition during dynamic CPU deallocation (CPUgard) • Corrected potential EEH data error.
RR020822	<ul style="list-style-type: none"> • Correction for Green/Amber slot ID/Power lights not being turned on when using the PCI Hot Plugging Management function. • Correction for the System Bus Frequency field showing 0 (zero) instead of 333000000 in a output display of lsattr -El sys0 command. • Correction for Extended I/O Error Handling Option not properly resetting the PCI slot after a PCI Bus Error. • Eliminated the extraneous messages appearing when exiting SMS

	<p>menu.</p> <ul style="list-style-type: none"> • Corrected the SMS menu(s) condition under which pressing 1 multiple times (in order to get to SMS) would result in arriving at the next menu screen. • Correction for page 1 of SMS being truncated upon pressing an invalid key on that page. • Corrected the SMS console select option which resulted in the system booting instead of returning to SMS. • Eliminated the double digit code appearing next to E1EB firmware progress code both in SMP and LPAR mode. • Corrected the changes in AIX location codes under PCI Hot Plugging remove/add option. This error would occur on all PCI Adapters containing bridges. • Corrected the next page navigation footer in the SMS menus that was being displayed when there was no second page. • Corrected the condition under which generating "aliases" for integrated and slot devices may cause excessive boot time (especially on systems containing a large number of LAN and SCSI adapters). • Corrected condition under which the system could not find a device to boot from, which results in the 20EE 000B error code. • Corrected a firmware condition that may result in the system hanging. • Corrected the problem that caused AIX to record firmware informational errors as PERM type in the AIX error log. • Corrected the incorrect FRU callouts. • Corrected the Service Processor firmware so that extraneous error log entries (error codes 4006 00B7, 4006 00B4, or B101 4669) after a temporary AC power outage are no longer logged. These error codes also appeared on the Operator Panel preceded by SPCN 1011 00AC error code.
RR020723	<ul style="list-style-type: none"> • Original (GA) level.