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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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Ultra320 SCSI アダプタ(2ch PCI-X) ファームウェア変更内容と来歴

ファームウェア変更内容と来歴	
0708000b	-iSeries enhancement for all U320 SCSI Controllers. Enhancement to recognize Hot Spare (RAID 0) DASD. -GA microcode level necessary for SCSI RAID AUX Cache Card Support.
05080092	-Resolves SCSI errors/compatibility with the HHLT02 tape drive -Resolves specific LUN mode negotiation problems
0508008a	-Fix for a system hang at 0255/0266 after a SCSI Cable Pull test. -Improve error logging for 9010 errors by including the Bats status area. -Change handling of the Handle Query Resource State Command with the sync override bit set.
05080085	The follow all relate to Dual Initiator Mode fixes to improve SCSI Adapter timing windows. -CCIN 5702: SCSI Controller Chip hang after Check Conditions -CCIN 5702/1974, 5703/1975, 571A/1912, 571B/1913: Adapter Unit Check during system reboot. This was seen w/ 358x LTO tape devices attached. -CCIN 5702/1974, 571A/1912: Intermittent 2-4 second SCSI adapter delays during system reboot. The delays occurred when the adapter's PEL FLASH filled up and had to be erased to clear space. Reset detected errors, which are expected in Dual Initiator Mode, will no longer be logged in the PEL FLASH on 5702/1974,571A/1912.
0508006a	-Contains fix for HUS10K DASD Selection Timeouts which can cause a boot drive not to be found and the system to boot to SMS. -SCSI Target Mode fix for possible hung I/O operation -Added support for vendor unique "c0" command used in Atape & 3590 configurations w/ HVD/LVD converter and created workaround to prevent SCSI bus hang resulting in reset condition -Fix to prevent the following: Data may exist in the cache marked for the same section of disk. The older data was in the process of being destaged when power was lost on the adapter while the newer data was just written. The older data has a chance to be written back to disk upon power on rather than the newer. This problem was seen sporadically in test w/ the IBM Hitachi 15K Rpm DASD.
05080064	Do not install this level. Configuration Problems w/ HUS10K DASD. -New revision level of microcode. -Ported 20MBps SE fix to new revision level.
02080039	-Added detection for invalid DMA 's
02080037	-Minimum support level for HV products -Increased BATs speed (Adapter/Controller comes available faster on bringup) -Added support for HV products

02080032	Prior to microcode update, a shutdown is performed to the I2C bus to acquiesce activity. This prevents the I2C bus from getting hung and the Virtual SES devices from coming up "defined".
0208002f	-Virtual SES code fix (SF2, L4). 1) (SF2, L4) I2C bus may hang when adapter reset occurs while the adapter is reading the EEPROM on the I2C bus. Reduce window of occurrence. 2) (L4). I2C bus timeout when adapter is reset and running diagnostics.
0208002d	-Virtual SES fixes: a) LED fix for L4 system and b) PCI-X Quad Channel Ultra320 SCSI RAID Adapter fix for all systems -Error log changes: a) Differentiated a error condition. Adapter now logs a specific error instead of generic for a given situation. b) Return the correct error information to the pSeries Adapter Device Driver (ADD) so a SCSI adapter detected CRC error is logged instead of a program error microcode problem. Problem was seen on L4, SF2 and SF4. -Added Linux support features and fixed Linux drive replacement problem -Force SE mode to 20MBps when an SE device is connected to the 7029-6C3/6E3 new feature backplane. This backplane expands the Integrated SCSI Controller adding an external port.
02080029	Modification to run Ultra320 speeds using Linux kernel 2.6. Various performance enhancements.
02080026	External SE device fix; external SE devices are limited to 20MBps. SRN's 6C9-103 and/or 2522-720 may be displayed when Diagnostic's is run against this adapter prior to installing microcode. Added support for unique vendor command on 3580/3583 LTO tape device.
02080025	Resolves SCSI_ERR10 (SCSI Bus Reset) condition upon Diagnostic's System Verification or Microcode Download in 7028-6C1 w/ safte device.
02080024	Enhanced SCSI signal path validation. Removed extended Target Mode delays. Removed erroneous AIX errors logged during drive microcode download. Added unique RAID array identifiers for Linux support. Removed erroneous SCSI bus reset error logged when a device reports an error condition. Corrected extended SCSI bus reset that may occur when running HACMP.
0208001c	Installing two 4-pack backplanes in a p615 may cause the second backplane (sesX) to boot in the defined state or not be seen. Microcode 001c corrects this problem.
02080014	GA level

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