



Hewlett Packard Enterprise Support Center Enterprise

驱动程序和软件

** CRITICAL ** System ROMPaq Firmware Upgrade for HP ProLiant DL180 G6/DL160se G6/DL288 G6 Servers (For USB Key-Media)

类型:	BIOS (Entitlement Required) - 系统 ROM
版本:	2013.07.01(A)(13 八月 2013)
操作系统:	Microsoft Windows HPC Server 2008 R2 Microsoft Windows MultiPoint Server 2011 Microsoft Windows Server 2003 Microsoft Windows Server 2003 for 64-bit Extended Systems Microsoft Windows Server 2008 Essential Business Microsoft Windows Server 2008 R2 Microsoft Windows Server 2008 Small Business Microsoft Windows Server 2008 W32 Microsoft Windows Server 2008 x64 Microsoft Windows Small Business Server 2011 Standard and Essentials OS Independent Red Hat Enterprise Linux 4 (AMD64/EM64T) Red Hat Enterprise Linux 4 (x86) Red Hat Enterprise Linux 5 Desktop (x86-64) Red Hat Enterprise Linux 5 Server (x86) Red Hat Enterprise Linux 5 Server (x86-64) Red Hat Enterprise Linux 6 Server (x86) Red Hat Enterprise Linux 6 Server (x86-64) SUSE Linux Enterprise Server 10 (AMD64/EM64T) SUSE Linux Enterprise Server 10 (x86) SUSE Linux Enterprise Server 11 (AMD64/EM64T) SUSE Linux Enterprise Server 11 (x86) Solaris 10 for x86 Systems VMware ESX/ESXi 4.0 VMware ESX/ESXi 4.1 VMware ESXi 5.0

说明

This release provides updated system ROM images for the latest maintenance releases of HP ProLiant DL180 G6/DL160se G6/DL288 G6 Servers.

安装说明

To ensure the integrity of your download, HPE recommends verifying your results with this SHA-256 Checksum value:

4923d58e275e2a7d13513d2f21117d4a9ff9195c022615719e26f7f0134618d0 SP63000.exe

Reboot Requirement:

Reboot is required after installation for updates to take effect and hardware stability to be maintained.

Installation:

1. Obtain a formatted USB Key media.
2. Download the SoftPaq to a directory on a system running Microsoft Windows 2000, Microsoft Windows XP, Microsoft Windows Vista, Microsoft Windows 7, Microsoft Windows Server 2003, Microsoft Windows Server 2008, or Microsoft Windows Server 2008 R2 and change to that directory.
3. From that drive and directory, execute the downloaded SoftPaq file: Simply double click on the SPxxxx.exe file and follow the installation wizard to complete the SoftPaq installation process. At the end of a successful installation of the SoftPaq a web page will automatically appear to provide you with the different methods for restoring and/or upgrading the firmware on the system.
4. After the USB Key is created, you may delete the downloaded file if you wish.
5. Insert this USB Key into the USB Key port of the system to be updated and power the system on to boot to the USB Key.

版本说明

End User License Agreements:

[Hewlett-Packard End User License Agreement](#)

Upgrade Requirement:

Critical - HPE requires users update to this version immediately.

Important:

Important Notes:

This System ROM flash does require a bootblock flash using AFUDOS. There is NO online flash capability with this ROM release.

Deliverable Name:

HP ProLiant DL180 G6 / DL160se G6 / DL288 G6 - O20

Release Date:

07/01/2013

Last Recommended or Critical Revision:

07/01/2013

Previous Revision:

10/01/2012

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed a processor issue under which a rare and complex sequence of internal processor microarchitecture events that occur in specific operating environments could cause a server system to experience unexpected page faults, general protection faults, or machine check exceptions or other unpredictable system behavior. While all processors supported by this server have this issue, to be affected by this issue the server must be operating in a virtualized environment, have Intel Hyperthreading enabled, have a hypervisor that enables Intel VT FlexPriority and Extended Page Tables, and have a guest OS utilizing 32-bit PAE Paging Mode. This issue is not unique to HP ProLiant servers and could impact any system utilizing affected processors operating with the conditions listed above. This revision of the System ROM contains an updated version of Intel's microcode that addresses this issue. Due to the potential severity of the issue addressed in this revision of the System ROM, this System ROM upgrade is considered a critical fix.

Addressed an issue with the Intel Xeon Processor X5675, Intel Xeon Processor X5690, and Intel Xeon Processor X5687 where a rare and complex combination of data and environmental conditions may result in some instructions not executing properly causing unpredictable system behavior. This issue is not unique to HP ProLiant servers and could impact any system using the affected processors listed above. This revision of the System ROM contains an updated version of Intel's microcode that addresses this issue. This System ROM upgrade is considered a critical fix for customers utilizing the affected processors. This issue does not impact any processors that are not listed above.

Known Issues:

None

解决问题

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重要

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Known Issues:

None

修订版历史记录

版本: 2013.07.01(A) (13 Aug 2013)

版本: 2012.10.01(A) (6 Nov 2012)

版本: 2012.05.01 (A) (13 Jun 2012)

版本: 2012.02.01 (A) (10 Feb 2012)

版本: 2011.09.01 (B) (4 Nov 2011)

版本: 2011.06.15 (A) (26 Jul 2011)

版本: 2011.05.05 (A) (20 May 2011)

版本: 2011.01.24 (B) (2 Feb 2011)

版本: 2010.08.17 (A) (14 Sep 2010)

修复

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

For servers using Intel Xeon processor 5600 series, resolve an issue where an uncorrectable memory error may occur. If this error occurs, the system may generate a blue screen if using Microsoft Windows operating systems, generate a panic if using a Linux operating system, or become unresponsive. In addition, the System Health LED may be illuminated amber and the System Event Log may have an event indicating the uncorrectable memory error. These errors do not indicate a problem with the memory DIMMs or the server system board. This issue is not unique to HP ProLiant servers and is resolved by a new revision of Intel's microcode for Intel Xeon processor 5600 series that is implemented in this version of the System ROM. Intel Xeon processor 5500 series processors are not affected by this issue. Note: After completing the flash upgrade process for this revision of the System ROM, the server should be power cycled.

Updated the Redundant Fan SDR table to prevent possible false sensor warnings as fan speeds are reduced at boot-up time.

Known Issues:

None

版本: 2010.07.23 (A) (4 Aug 2010)

修复

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Resolved an issue where the Power Efficiency mode was being set to "Custom" any time CONREP was used to set system configuration options.

Known Issues:

None

增强功能

Added a feature to detect memory initialization errors at boot-up time.

Added a BIOS Setup menu option for selecting the number of active processor cores as a related item for Power Efficiency Mode.

Added a staggered spin-up time for installed hard drives during system power-on for better power management.

版本: 2010.05.19 (A) (8 Jun 2010)

修复

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Resolved an issue where system running RHEL5 with a Xen kernel intermittently does not shut down properly.

Known Issues:

None

增强功能

Added staggered spin-up of installed hard drives at system power-on for more better power management.

版本: 2010.03.31 (A) (5 May 2010)

修复

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Resolved an issue where the second of two installed 400W redundant power supplies is not displayed properly in the BIOS Setup Menu.

Resolved an issue where certain Micron memory DIMMs might not be detected properly or might show false overtemp warnings during POST.

Resolved an issue where uncorrectable memory errors might display the logical DIMM location rather than the correct physical slot number during POST and/or in the System Event Log.

Moved VT-d menu option in the BIOS setup menu to align with other virtualization-related settings.

Known Issues:

None

增强功能

Updated to new ProLiant splash screen.

Implemented power efficiency improvements for 95W processor configurations.

版本: 2010.02.04 (B) (9 Feb 2010)

修复

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Resolved an issue where the system would not boot to CD or DVD with two LSI SAS3081E-R HBAs installed.

Resolved an issue where uncorrectable memory errors recorded in the System Event Log did not correctly indicate the failed DIMM location via the Lights-Out 100 System Event Log interface.

Resolved an issue where disabling the embedded NIC via the BIOS setup menu does not actually disable it.

Known Issues:

None

增强功能

Added support in the BIOS setup menu for enabling/disabling VT-d (virtualization technology for directed I/O).

版本: 2009.12.03 (A) (7 Jan 2010)

修复

Upgrade Requirement:

Optional

Users should update to this firmware revision if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced functionality provided by this revision.

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Resolved an issue where the One Button Disaster Recovery feature would not work with SAS devices.

Resolved an issue where the One Button Disaster Recovery feature would not work with USB devices under Windows Server 2003.

Resolved an issue where setting the PCI Express mode to Gen2 in the BIOS Setup Menu did not set the PCI Express mode to Gen2.

Resolved an issue where the system could hang when both an nVidia FX3800 graphics card and an Infiniband card were installed, with Node Interleaving enabled.

Known Issues:

None

增强功能

Added a "QPI Optimization" option in the BIOS Setup Menu. It is recommended that this setting be left in the default state for most configurations.

版本: 2009.11.06 (A) (9 Dec 2009)

修复

Upgrade Requirement:

Optional

Users should update to this firmware revision if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced functionality provided by this revision.

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Resolved an issue where SmartArray controllers upgraded to FW versions 2.50 or later may sometimes not be detected at POST.

Resolved an issue where redundant fans were not properly displayed in the BIOS Setup Menu.

Known Issues:

None

增强功能

Added an option in the BIOS Setup Menu to select edge or level triggered interrupts for the serial port.

版本: 2009.10.15 (A) (28 Oct 2009)

修复

Upgrade Requirement:

Optional

Users should update to this firmware revision if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced functionality provided by this revision.

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Resolved an issue where systems with the NC522SFP Dual Port 10GbE network card installed may experience grey screen hangs at POST.

Known Issues:

None

增强功能

Added an option in the BIOS Setup Menu to allow for selecting memory interleaving in one node.

Disabled turbo mode when the user selects Efficiency mode in the BIOS Setup Menu.

版本: 2009.09.03(A) (30 Sep 2009)

修复

Upgrade Requirement:

Recommended - HPE recommends users update to this version at their earliest convenience.

Upgrade Requirement:

Optional

Users should update to this firmware revision if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced functionality provided by this revision.

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Lengthened the delay time of the system summary screen during POST to allow users time to view information.

Resolved an issue where the system can hang during POST in configurations where the OS boot drive is attached to a P212 Smart Array controller.

Resolved an issue where the BIOS Setup Menu displayed an incorrect name for the HP SC40Ge Host Bus Adapter.

Resolved an issue where multiple erroneous events with ID 57 are created in the System Event Log (SEL) under a Microsoft Windows OS.

Known Issue:

None

增强功能

Added support for 16Gb DIMMs.

版本: 2009.07.28(A) (17 Aug 2009)

修复

Upgrade Requirement:

Recommended - HPE recommends users update to this version at their earliest convenience.

Resolved an issue where a system with a HP SmartArray P410 controller combined with a HP StorageWorks FC1142/FC1242/FC2242 PCI Express Host Bus Adapter fails to boot, displaying a "PCE uncorrectable error".

Resolved an issue where the system will generate multiple "Bus Correctable Error" events in the System Event Log (SEL) when configured with HP StorageWorks PCIe Fibre Channel Host Bus Adapter.

Resolved an issue where a system with a HP SmartArray P410 controller and a HP NC382T PCI Express Dual Port Server Adapter, in certain slot configurations, may not boot to the hard drive under SLES 10 SP2.

Resolved an issue where, a single fan failure in a configuration with fan redundancy, causes the health LED to incorrectly blink red instead of amber.

Resolved an issue where pressing "Ctrl+B" at POST to configure the HP NC522SFP Dual Port 10GbE Server Adapter will cause a system hang.

版本: 2009.07.05(B) (15 Jul 2009)

修复

Upgrade Requirement:

Recommended - HPE recommends users update to this version at their earliest convenience.

Resolved issue with HP NC364T PCI Express Quad Port Gigabit Server Adapter not being properly recognized in certain slots.

Resolved issue with hang with HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter when exiting option ROM configuration via F4.

增强功能

Added Drive Write Cache support for AHCI mode.

版本: 2009.06.10 (A) (16 Jun 2009)

修复

Resolved issue with HP NC364T PCI Express Quad Port Gigabit Server Adapter not being properly recognized in certain slots.

Resolved issue with hang with HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter when exiting option ROM configuration via F4.

Fixed "erroneous power supply mismatch" error at POST in some cases with two 460W power supplies installed.

增强功能

Added support for redundant fans.

Optimized power efficiency in certain configurations.

版本: 2009.04.28 (A) (21 May 2009)

修复

Resolved an issue displaying uncorrectable memory errors using 0-based numbering instead of the correct 1-based numbering.

Resolved an issue with incorrect sensor numbers in some memory ECC and POST errors reported in the system event log.

增强功能

Enabled processor and memory phase shedding support for increased power efficiency.

Improved detection and recovery support for SDR corruption.

版本: 2009.03.30 (A) (22 Apr 2009)

修复

Ensured that the system shuts down immediately once the upper non-recoverable threshold temperature is reached.

Resolved problem causing identification issues and driver load failures on Mellanox Infiniband cards.

版本: 2009.03.10 (A) (14 Apr 2009)

增强功能

Initial release.

版本: 2009.03.19 (A) (14 Apr 2009)

修复

Resolved issues with TPM module identification.

Resolved an issue with Intel SpeedStep Technology not being enabled when Performance Mode is selected in the BIOS Setup Menu.

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