Important Notices
Bull NovaScale R440 E1,R460 E1

This document includes important instructions for using the Bull NovaScale R440 E1 et R460 E1.
Please read it carefully and follow the instructions provided when using your system.

No <OS>	Descriptions

1
Win/Linux
	Wake-On-LAN Function
	
	   The remote power-on/-off function (Wake-On-LAN) is not enabled immediately after the AC power is turned on.
	   To use this function, start Windows 2003 once, perform the steps below, and then shut down the system.
	   The Wake-On-LAN will be enabled after restart unless the AC power is turned off.
	
	    1. Select [Start] - [Administrative Tools] - [Computer Management].
	    2. Select [Device Manager] - [Network Adapter], and double-click [Intel(R) PRO/1000 EB Network Connection with I/O Acceleration #n]. Set as below in the [Detail] tab.
	
	        PME: [ON]
	        Wake On: [Magic Packet]

2 Windows	**Display Setting** To change your display setting, go to "Display Properties" - "Settings" – "Advanced" – "Troubleshoot." However, do not select "None" for "Hardware Acceleration."
3 Win/Linux	**POST Error** The following message may appear during restart after memory dump. However, you may continue to operate the system. (The message may be displayed only when you restart for the first time after memory dump.) Controller Bus#00, Device#1F, Function#02: 06 Ports, 01 Devices Port-xx: Hard Disk, xxxxxxxxxxx (The values in "xxx…" vary by type of disk and disk position.) SMART command failed
4 Win/Linux	**Confirming RAID Controller Status via NEC ESMPRO Manager** Please be sure to install NEC ESMPRO Agent ESMDiskArray Ver 1.50 or later and Universal Raid Utility Ver1.30 or later to check the failures of the following RAID Controllers in the Data Viewer of NEC ESMPRO Manager. ・ LSI Embedded MegaRAID on the motherboard. ・ The standard RAID controller on the Bull NovaScale R440 E1 et R460 E1. ・ SAS CTRL 8708 RAID controller (128MB RAID 0/1). ・ SAS CTRL 8708 RAID controller (128MB RAID 0/1/5/6). After installing these applications, the status of the RAID Controllers which Universal RAID Utility manages will be reflected on the server icons on the NEC ESMPRO Manager operation window. Note: The enhancement is available on only Windows OS. Linux OS is not supported. If you want to check the status of the RAID Controllers without installing these applications, set the

	"Alert driven status control" function to reflect the status of the RAID controllers on the server icons of the Operation Window (see "How to use Alert driven status control").

You can download the new NEC ESMPRO Agent ESMDiskArray from the Bull Web site:
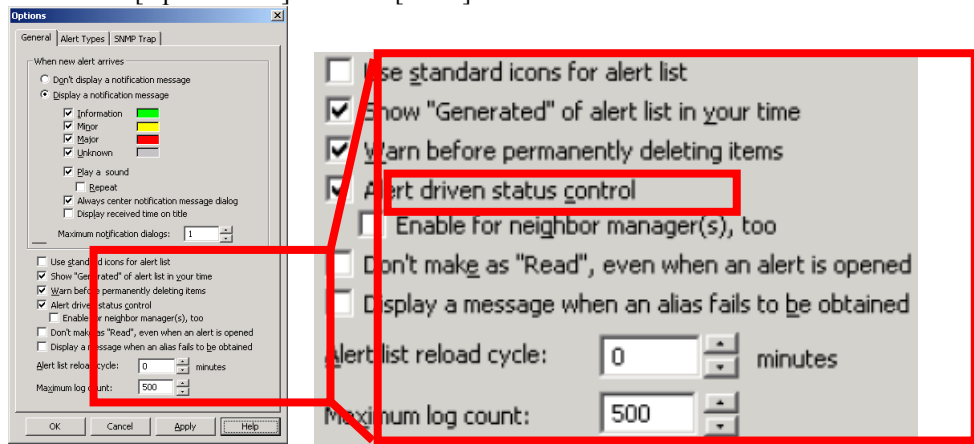http://www.bull.com/support/index.html

"Modules to monitor RAID status via NEC ESMPRO data viewer"

Please make sur that the installation of both NEC ESMPRO agent and Universal RAID Utility is necessary for the enhancement.

・ NEC ESMPRO Agent ESMDiskArray Ver1.50 or later
・ Universal RAID Utility Ver1.30 or later (Windows)

■ How to use "Alert driven status control"
1. Open the NEC ESMPRO Manager AlertViewer.
2. Choose [Options ・・・] from the [Tools] menu.

[Options] dialog box

3. Select [Alert driven status control] from the [General] tab in the [Options] dialog box.
4. Click [OK]. |
| 5 Win/Linux | **Disk Drive Maintenance**

The LSI SAS RAID 8480 Disk Array Controller does not support patrol read.
You need to check data consistency when maintaining disk drives.
To perform a consistency check manually, use the Universal RAID Utility or execute the raidcmd command (use the cc subcommand as below).
You may also schedule consistency checks.

raidcmd cc –c=<controller number> -l=<virtual disk number> -op=start

Note:
See the Universal RAID Utility User's Guide for the consistency check procedure.
Do not use the cc subcommand when you are using the LSI SAS RAID 8480 Disk Array Controller.
For more details about the consistency check and patrol read, see the User's Guide provided with the LSI SAS RAID 8480 Disk Array Controller. |
| 6 Linux | **Linux OS (Red Hat Enterprise Linux / MIRACLE LINUX)**

To change your System BIOS setting, go to "Advanced" - "Advanced Chipset Control" – "Multimedia Timer" – "Enabled"
However, do not select "Disabled". |
| 7 Linux | **Installing Universal RAID Utility on Red Hat Enterprise Linux 5.1**

The Universal RAID Utility uses GCC 3.3.4 Compatibility Standard C++ Library ("Library"). Make sure Confirm if your system contains the Library. If not, install the Library in your system. |

How to confirm the presence of GCC 3.3.4 Compatibility standard C++ library

- Use the rpm command for confirmation. If your system already contains the Library, you will see:

```
# rpm -q compat-libstdc++-33
compat-libstdc++-33-3.2.3-*
#
```

You can install the Universal RAID Utility.
Note: The number in "*" varies by operating system.

- If your system does not have the Library yet, you will see:

```
# rpm -q compat-libstdc++-33
package compat-libstdc++-33 is not installed.
#
```

Install the Library by performing the steps below.

How to install GCC 3.3.4 Compatibility Standard C++ Library

1. Insert your OS installation disk including the Library to the CD-ROM/DVD-ROM drive of your system.

2. Change the current directory to another containing the Library, and execute the rpm command to install the Library.
   Note: The number in "*" varies by operating system.

```
# rpm -ivh compat-libstdc++-33-*.i386.rpm
Preparing...              ############################# [100%]
   1:compat-libstdc++-33 ############################# [100%]
#
```

3. Use the rpm command to make sure if the Library has been installed properly. When the installation is successfully complete, the "compat-libstdc++-33-3.2.3-*"package will be displayed.
   Note: The number in "*" varies by operating system.

   If the installation fails, the package name will not be displayed.

```
# rpm -q compat-libstdc++-33
compat-libstdc++-33-3.2.3-*
#
```

You can install Red Hat Enterprise Linux 5.1 and the Library at the same time. To do this, select "Legacy Software Support" under "Base System" when you are installing the operating system and selecting a package group.

8 Windows	**RAID Controller**
	Event ID129 When the optional RAID Controller [LSI SAS CTRL 8708 or equivalent] is in use in your system, the following event may be logged in the event viewer:

Source	msas2k3
Event ID	129
Type	Warning
Description	The description for Event ID(129)in Source(msas2k3) cannot be found. （the future omission）

The RAID Controller has been successfully reset by OS. Ignore this message.

9 Win/Linux	**BIOS SETUP MENU for BIOS Rev.4S28 or later**

BIOS SETUP MENU for BIOS Rev.4S28 or later

The following function becomes available in BIOS SETUP MENU for BIOS Rev.4S28 or later:

- Fan Control Mode

This function allows a fan speed to be controlled for silent operation.

The description about this new function is added to the User's Guide contained in the EXPRESSBUILDER CD-ROM.

<Additional description>

"Chapter2 Hardware"→ "BIOS SETUP"→"Server"

- FAN Control Mode : [Normal] / Low

* The default settings vary by system configuration.

For BTO system, the fan control mode is set to "low" by default.

	Model	Processor	FAN Control Mode : [Low] by default	Notes
	R440 E1	Xeon E5205 1.86G/1066/6M	Max 8DIMM (regardless of memory capacity)	1U 2.5"HDD Model
		Xeon X5260 3.33G/1333/6M		
		Xeon E5405 2G/1333/2x6M		
		Xeon E5420 2.50G/1333/2x6M		
		Xeon E5205 1.86G/1066/6M		1U 3.5"HDD Redundant power Model
		Xeon X5260 3.33G/1333/6M		
		Xeon E5405 2G/1333/2x6M		
		Xeon E5420 2.50G/1333/2x6M		
		Xeon E5205 1.86G/1066/6M		1U 3.5"HDD Fixed power Model
		Xeon X5260 3.33G/1333/6M		
	R460 E1	Xeon E5205 1.86G/1066/6M		2U Model
		Xeon X5260 3.33G/1333/6M		
		Xeon E5405 2G/1333/2x6M		
		Xeon E5420 2.50G/1333/2x6M		
		Xeon X5460 3.16G/1333/2x6M	Max 8DIMM (regardless of memory capacity) A 3.5-inch tape device is not installed	
		Xeon X5450 3G/1333/2x6M		
		Xeon X5470 3.33G/1333/2x6M		

* For other configurations or model codes, the fan control mode is set to "Normal"

Notes : If you have added 9 or more memory DIMMs or installed a 3.5-inch backup device in your system with the fan control mode set to "Low",the following message appears on POST:

0B7E : Mismatched FAN control Mode setting.

Please set the FAN control mode on BIOS SETUP

In this case, change your fan control mode to "Normal"

Important : If you change the fan control mode to "Low" in other configuration than those indicated in the table, the system may not operate normally.