

Express5800 Urgent Notice

Rev3

August. 17. 2005

110Ei BIOS PROBLEM

(1) **Relevant product:**

N8100-1004F/1005CF/1004CG/1004DG NEC Express5800/110Ei
(Produced May ~ July 2005)

(2) **Problem**

The unit of BIOS REVISION"6028" (produced May ~ July 2005) may be stalled depending on PCI board configuration.

** Example **

PCI Slot#1	Disk Array Controller
PCI Slot#2	-
PCI Slot#3	Sound Card
PCI Slot#4	-

(3) **Cause**

Improper interruption handling, of BIOS revision "6028"

(4) **Measure**

PLEASE check current BIOS revision. **If the BIOS revision is "6028", please upgrade it from "6028" to "6030".** If BIOS revision is "6025", the problem will not arise, but it is of no matter.

Upgrade Instructions → Please refer to next page.

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NEC Express5800 series
Express5800/110Ei (N8100-1004CF, 1004CG, 1004DG, 1005CF)
Phoenix cME(tm) TrustedCore(tm) Server Release 1.0.6030
Release notes
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NEC Corporation.
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1. Software introduction

This System BIOS (Phoenix cME(tm) TrustedCore(tm) Server Release 1.0.6030) is programmed allow the NEC Express5800/110Ei (N8100-1004CF,1004CG, 1004DG, 1005CF) systems to support the following feature.

- This BIOS update data contains,
- CPU microcode (D0) update
 - Improving PCI slots configuration.
 - GBIA update (FAN threshold improved.)

<Notes>

Incorrect update operations may cause a system start failure. Read this explanation thoroughly, until fully understanding the correct system update procedures. If an unexpected problem arises (e.g., power failure, lightning, shutdown, or noise) during the data rewrite process, a system malfunction or the power supply loss may occur, resulting in equipment damaged, which may cause the equipment to fail or operate incorrectly. In such a case, repair expenses may be charged to the customer.

2. Applicable models

- Models
NEC Express5800/110Ei (N8100-1004CF,1004CG,1004DG,1005CF)
- BIOS version
BIOS version 6028 or lower number.

Do not apply this BIOS update data to the other system.

BIOS confirmation procedures:

- (1) Power on the machine.
- (2) When the following message or NEC logo appears, press the F2 key to start the BIOS Setup Menu.

- * If the NEC logo appears on the screen, press the ESC key.
- * So the following message appears, press the F2 key to start the

* BIOS Setup Menu.

"Press <F2> to enter SETUP"

(3) The BIOS version of your system will be displayed in the following procedure.

```
[Server]-> [Server Management]
          BIOS Version: 60XX
                   ^^^^
```

(4) Press ESC key and move the cursor to [Exit], using the arrow keys.

(5) Select [Exit Discarding Changes], and exit the BIOS Setup Menu.

(*) Refer to the User's Guide for details on BIOS Setup.

3. Installation procedures

[What you must prepare]

(1) One 2HD floppy disk (1.44MB)

Prepare one floppy disk per each machine to be updated.

(2) Prepare the "NEC EXPRESSBUILDER" CD-ROM supplied with the machine.

3-1. Creating the installation floppy disk:

Prepare a formatted 2HD floppy disk (1.44MB).

The downloaded file is in the self-extracting format.

Run the self-extracting file, and copy all the extracted files onto the floppy disk.

This will be used as the "BIOS update data" floppy disk.

Attach a label indicating the following information to the newly created floppy disk, and keep it in a safe location:

```
Express5800/110Ei
(N8XXX-YYY)
Phoenix cME(tm) TrustedCore(tm)
Server Release 6030
```

Note: Substitute XXX and YYY with the model number and N code of the machine to be updated respectively.

3-2. BIOS update procedure

Follow the procedures below to update the old System BIOS with the one ("BIOS update data"), created in the procedures above:

- (1) Insert the NEC EXPRESSBUILDER CD-ROM into the CD-ROM disk drive of the system that will be updated.
- (2) Boot the system from the CD-ROM.
- (3) Select [Tools] from the Main Menu.
- (4) Select [BIOS/FW/etc. Update] from the Menu.
- (5) When the following message is displayed, insert the "BIOS update data" floppy disk into the floppy disk drive of the system, and then press the Enter key.

[BIOS/FW/etc. Update]

Please insert the floppy disk which contains "update module" into the drive.

Execute:[Enter] Stop:[Esc]

- (6) When the following message is displayed, press the Enter key.

[BIOS Update]

The files needed for the update will be copied from the CD-ROM to the floppy disk.

Execute:[Enter] Stop:[Esc]

- (7) When the following message is displayed, the files required for the BIOS update will be copied to the floppy disk. Please wait a moment (about 2 minutes)

[BIOS Update]

Now, copying the files needed for BIOS Update to the floppy disk.

Please wait a moment.

- (8) When the following message is displayed, remove the "NEC EXPRESSBUILDER" CD-ROM from the CD-ROM drive of the system, and then press the Enter Key.

[BIOS Update]

Please remove the CD-ROM. But don't remove the floppy disk.
If you select 'Execute', system will be rebooted automatically. And then update procedure will be executed from the floppy disk.

Execute:[Enter] Stop:[Esc]

- (9) Keep the "BIOS update data" floppy disk in the floppy disk drive of the system, and allow the system to boot from the floppy disk drive.
The following message will appear when the system is started from the "BIOS update data" floppy disk:

```
0123456
Starting ROM-DOS ...
789
Checking BIOS Version. Please wait...
Current BIOS Version: 60XX
ROM File BIOS Version: 6030
```

- (10) The BIOS update tool will automatically be run.
The update process will take approximately 4 to 5 minutes. DO NOT power off the system during this update process.
The following message will appear when the update process has finished.

```
Flash memory has been successfully programmed
PRESS ANY KEY TO RESTART THE SYSTEM
If the system does not restart,
TURN THE POWER OFF, THEN ON
```

- (11) Press the Enter key to reboot the system.
(Please do not remove the floppy.)

- (12) Boot the system from the floppy disk drive of the system.
The Update operation will be complete when the following message will be displayed:

```
0123456
Starting ROM-DOS ...
789
Checking BIOS Version. Please wait...
Current BIOS Version: 6030
ROM File BIOS Version: 6030
BIOS update has already done.
Please take out BIOS update media and reboot.
```

- (13) Remove the floppy disk from the floppy disk drive according to the instructions displayed on the screen, and then restart the system.

- (14) Press the F2 key during POST, and start the BIOS Setup Menu.
Confirm that the BIOS version has been updated to the following:

```
[Server]-> [Server Management]
          BIOS Version: 6030
          GBIA Module Version: 00.10
```

This completes the System BIOS update process.

4. Notes

(1) The device boot order may have been changed depending on the machine's operating environment. In this case, the boot sequence must be changed to the order as shown below.

1. CD-ROM
2. Floppy disk drive

Refer to the User's Guide for the procedure on changing the boot device start order.

(2) When the system is started, only the NEC logo with blue on white background may be displayed depending on the supported features of the basic processing unit and settings that you performed.

In this case, press the <ESC> key while the NEC logo screen is displayed. So the following message appears, press the F2 key to start the BIOS Setup Menu.

"Press <F2> to enter SETUP"

(3) The BIOS update data of this system does not support the system BIOS update using the remote console.

(4) If the BIOS update tool does not automatically start as described in "3-2. BIOS update procedure", a message may appear indicating the reason why the tool has not started:

- (a) BIOS Update has already done.
Please take out BIOS update media and reboot.

The BIOS version of the current system is the same as the update version, and does not require updating.

- (b) This BIOS is NEW. Don't need BIOS update.

The BIOS version of the current system is newer than the update version, and the functions equivalent to those included in the update have already been applied to the system, and does not require updating.

- (c) System Type Unmatched !!

This message will appear when attempts are made to apply the BIOS update to inapplicable models.

Confirm "Models" and "BIOS versions" in "2. Applicable models".

- (d) "Invalid BIOS data" or "BIOS data unmatched!!"

Either of these messages will appear when the data contained in the "BIOS update data" floppy disk is invalid. Be certain to use "BIOS update data" floppy disks that are free from defects.