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Lnxflash User Guide

Purpose

This document provides information to use the Inxflash scripts to update the system BIOS.

Application Scope

Inspur Grantley platform server, 64bit Linux OS.

Operation

- 1. Copy the Inxflash package and BIOS.bin (the image to be updated) to the 64bit Linux OS.
- 2. Move to Inxflash directory (Figure 1). In this directory, Flash.sh is used to update the BIOS part of the image file, Meflash.sh is used to update the BIOS and ME parts of the image file, and the BIOS.bin is the image file to be updated.



Figure 1

3. If no ME update, execute the command shown below to update the BIOS part. The updated process is shown in figure 2.

#./Flash.sh BIOS.bin

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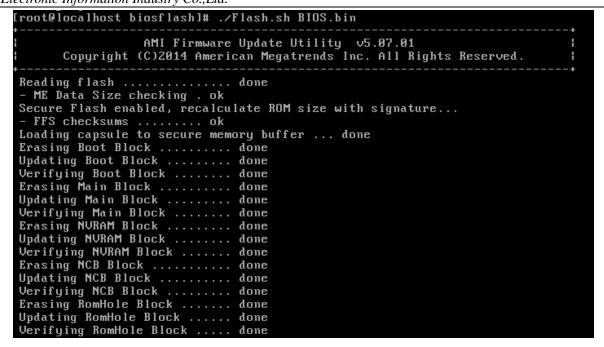


Figure 2

4. If ME Changed, the BIOS and ME parts all need to be updated.

First, execute the command shown below to start the IPMI service (Figure 3). Meflash.sh has integrated the IPMI commands to disconnect the BMC and ME communication, to avoid BMC and ME communications' interference in the update process.

service ipmi start

```
[root@localhost ~]# service ipmi start
Starting ipmi drivers: [ OK ]
```

Figure 3

1. Then, execute the command shown below to update the BIOS and ME parts. The flashing process is shown in Figure 4.

#./Meflash.sh BIOS.bin

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[root@localhost biosflash]# ./Meflash.sh BIOS.bin
======================================
Waiting for ME to reflash now,please wait a moment
ME reflashing now
**
AMI Firmware Update Utility v5.07.01 Copyright (C)2014 American Megatrends Inc. All Rights Reserved.
Reading flash done
 ME Data Size checking . ok Secure Flash enabled, recalculate ROM size with signature
- FFS checksums ok Loading capsule to secure memory buffer done
Erasing Boot Block done
Updating Boot Block done Verifying Boot Block done
Erasing Main Block done
Updating Main Block done Verifying Main Block done
Erasing NURAM Block done
Updating NVRAM Block done
Verifying NVRAM Block done
Erasing NCB Block done Updating NCB Block done
Verifying NCB Block done
Erasing RomHole Block done
Updating RomHole Block done
Verifying RomHole Block done
Update success for /FDT!!Successful Update Recovery Loader to OPRx!!
- Successful Update FPT, MFSB, FTPR and MFS!!
- ME Entire Image update success !!
WARNING: System must power-off to have the changes take effect!
3a 32 00 Please wait a moment
riease walt a moment ME reflash finished!
System must AC power off to have the changes take effect!

Figure 4

WARNING: System must power-off to have the changes take effect!

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Appendix

Change History

Date	Revision	Description
2015.2.3	1.0	Initial document
2015.4.10	1.1	Added Warning notes
2015.4.20	1.2	Update Afulnx tool's Version to
		V5.07.01, and change figure 2 and
		figure4.