

## 1. Upgrade

In CLI, the command “upgrade” is used for system upgrade.

First, login uBMC and enter “configure” mode:

```
ubmc login: is_admin
Password:1qaz2wsX
ubmc> enable
ubmc# configure
ubmc(config)#
```

Then you can use scp/http/https/ftp to upload the image.

SCP:

```
ubmc(config)# upgrade file-url scp://x.x.x.x/path/file user <name>
```

FTP:

```
ubmc(config)# upgrade file-url ftp://x.x.x.x/path/file user <name> password <pass>
```

HTTP/HTTPS:

```
ubmc(config)# upgrade file-url http://x.x.x.x/path/file
```

```
ubmc(config)# upgrade file-url https://x.x.x.x/path/file
```

You can also upload the image into uBMC /var/images directory via SCP and use “upgrade image” to do the upgrade. Here is an example if the uBMC management IP is 192.168.0.10:

Remote server:

```
# scp ./UBMC_1.2.0.7_BUILD_202e3c40_UPGRADE.img is_admin@192.168.0.10:/var/images
```

uBMC:

```
ubmc(config)# upgrade image UBMC_1.2.0.7_BUILD_202e3c40_UPGRADE.img
Checking the upgrade package...
[100%] Done Check OK.

The software upgrade list is:
software: UBMC_1.2.0.6_BUILD_e047e8b9 => UBMC_1.2.0.7_BUILD_202e3c40
The upgrade might take about 3 minutes to complete. Do you want to continue? (y|n):y
System upgrade starts.
[100%] Done
System upgrade successfully.
Current booting bank 0
Software upgrade version: UBMC_1.2.0.7_BUILD_202e3c40
Software backup version: UBMC_1.2.0.6_BUILD_e047e8b9
Please reload the device to complete the upgrade.
```

The upgrade output will be like the above and then use command “reload” to reboot the device to complete the upgrade.

## 2. New Features

### 2.1 Thermal Profile

From 1.2.0.5, uBMC supports thermal profile setting to change fan speed with different CPU temperatures on **Small/Medium** boxes.

At present, it provides 4 fan profiles:

**Normal:** the fan speed will increase when temperature rises, which is the default profile.

**Quiet:** the fan speed will be low to reduce the fan noise.

**Strong:** the fan speed will increase quickly when temperature rises.

**Fullspeed:** the fan speed will be in full speed when temperature rises.

**NOTE:** The uBMC will shut down the host when the CPU temperature  $\geq 88^{\circ}\text{C}$ , and a warning like “Current temperature is 88C, so shut down HOST due to overheat.” will be logged in syslog.

In CLI, use “bmc thermal profile <profile>” to change the thermal profile.

```
ubmc(config)# bmc thermal profile
fullspeed normal    quiet    strong
ubmc(config)# bmc thermal profile quiet
ubmc(config)#
```

Then you can use “show bmc configured” to view the current thermal profile.

```
ubmc(config)# show bmc configured
BMC Console Configuration:
Log File           : true
Log Rotate Num     : 20
Log Rotate Size(M) : 5
COM Speed          : 115200
COM Data           : 8
COM Parity         : none
COM Stopbits       : 1
COM HW flowctrl    : true
COM SW flowctrl    : false

BMC Thermal Configuration:
Profile            : quiet
```

And you can use “show health” to check the current fan speed and host CPU temperature.

```
ubmc(config)# show health
Fan State:
ID  Name           Speed(RPM)  Status  Fault  Warning
1   FAN1_TACH       7563       green   no     no
2   FAN2_TACH       0          green   no     no
3   FAN3_TACH       7563       green   no     no

Temperature State:
ID  Name           Temperature(°C)  Peak(°C)
1   TEMP_HOST_CPU  46.000          46.000
2   TEMP_HOST_PCB  40.250          40.500
3   TEMP_IN_SYS    38.000          38.000
```

In Fan State, there are 3 fans displayed: FAN1, FAN2 and FAN3. FAN1 and FAN3 are mapped to the 2 fans at the rear of device as below, while FAN2 is reserved for future usage.



Please refer to the document below for the details of thermal profile test.



Fan\_profile\_all\_inf  
o.xlsx

## 2.2 Voltage Change

In 1.2.0.5, the description and threshold of some voltage sensors are changed.

Before 1.2.0.5:

Host Voltage Status

ID	Name	Voltage(V)
1	CPU_BRD 5V	5.0560
10	IO_BRD VCC3V3	3.3060
11	IO_BRD VDD1V8	1.8120
12	IO_BRD VDD1V5	1.4860
13	IO_BRD VDD1V0	0.9980
14	IO_BRD VDD1V0A	1.0220
15	IO_BRD V3P3A	3.3360
16	IO_BRD V1P1	1.0920
17	IO_BRD RTC_BAT	0.0000
18	IO_BRD V5TO12A	3.2460
2	CPU_BRD 3.3V	3.2958
3	CPU_BRD VCCSRAM	1.1910
4	CPU_BRD VCCP	1.0450
5	CPU_BRD 1.05V	1.7770
6	CPU_BRD MEM_VDDQ	1.6900
7	CPU_BRD CPU_VNN	1.4940
8	CPU_BRD 1.8V	2.1970
9	IO_BRD 5V	5.0820

After 1.2.0.5:

Voltage Status

ID	Name	Voltage(V)
1	CPU_BRD V5P0-STBY	4.9910
10	IO_BRD VCC3V3	3.3060
11	IO_BRD VDD1V8	1.8180
12	IO_BRD VDD1V5	1.4900
13	IO_BRD VDD1V0	1.0060
14	IO_BRD VDD1V0A	1.0000
15	IO_BRD V3P3A	3.3660
16	IO_BRD V1P1	1.0980
17	IO_BRD RTC_BAT	0.0000
18	IO_BRD V5TO12A	3.2580
2	CPU_BRD V3P3-STBY	3.2673
3	CPU_BRD VDDQ	1.1910
4	CPU_BRD V1P05	1.0450
5	CPU_BRD VCCIN	1.7770
6	CPU_BRD V1P7	1.6990
7	CPU_BRD V1P5	1.4940
8	CPU_BRD V3P3-PCH	3.2670
9	IO_BRD 5V	5.0880