

No	Command	Supported Requirement	Optional / Mandatory
1	Get Device ID	Yes	M
2	Cold Reset	Yes	O
3	Warm Reset		O
4	Get Self Test Results	Yes	M
5	Manufacturing Test On	Yes	O
6	Set ACPI Power State	Yes	O
7	Get ACPI Power State	Yes	O
8	Get Device GUID	Yes	O
9	Broadcast 'Get Device ID' (Receive only)	Yes	M

Table G-1, Command Number Assignments and Privilege Levels

	section	NetFn	CMD	C	U	O	A
IPM Device "Global" Commands							
reserved	-	App	00h	-	-	-	-
Get Device ID	20.1	App	01h		X		
Broadcast 'Get Device ID' ^[1]	20.9	App	01h	I	I	I	I
Cold Reset	20.2	App	02h				X
Warm Reset	20.3	App	03h				X
Get Self Test Results	20.4	App	04h		X		
Manufacturing Test On	20.5	App	05h				X
Set ACPI Power State	20.6	App	06h				X
Get ACPI Power State	20.7	App	07h		X		
Get Device GUID	20.8	App	08h		X		

IPMI SPEC 614 页

1. Get Device ID

A. RAW 方式

```

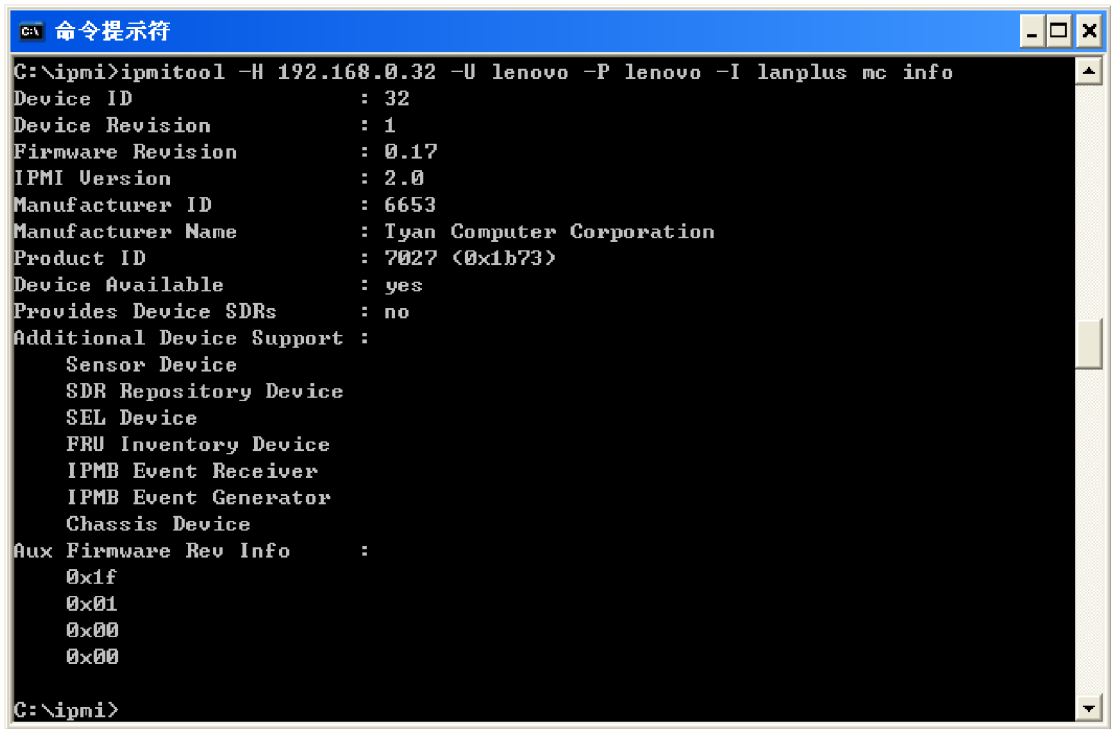
C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus raw 0x06 0x01
20 01 00 17 02 bf fd 19 00 73 1b 1f 01 00 00

C:\ipmi>_

```

具体解释在 IPMISPEC 243 页

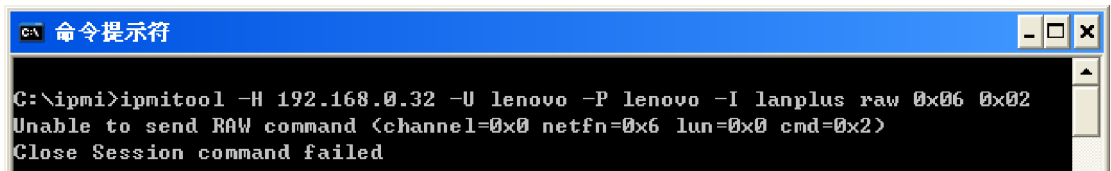
B. IPMITool 更简单的方式
用 mc 或者 bmc 都可以



```
C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus mc info
Device ID           : 32
Device Revision     : 1
Firmware Revision   : 0.17
IPMI Version        : 2.0
Manufacturer ID     : 6653
Manufacturer Name   : Tyan Computer Corporation
Product ID          : 7027 <0x1h73>
Device Available    : yes
Provides Device SDRs : no
Additional Device Support :
  Sensor Device
  SDR Repository Device
  SEL Device
  FRU Inventory Device
  IPMB Event Receiver
  IPMB Event Generator
  Chassis Device
Aux Firmware Rev Info :
  0x1f
  0x01
  0x00
  0x00
C:\ipmi>
```

需要注意 IPMITOOL 会区分大小写，比如：BMC 和 bmc 意义不同！

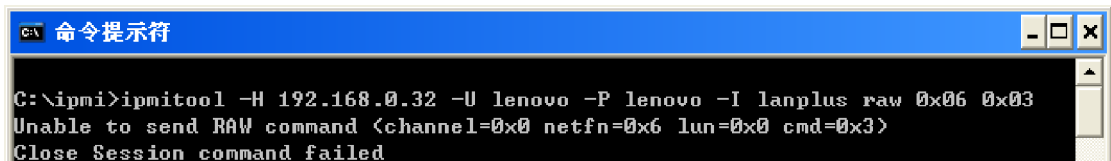
2. Cold Reset



```
C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus raw 0x06 0x02
Unable to send RAW command <channel=0x0 netfn=0x6 lun=0x0 cmd=0x2>
Close Session command failed
C:\ipmi>
```

虽然提示 Fail 但实际上已经生效了，Ping 的时候会无应答。
具体描述在 IPMI SPEC 274 页

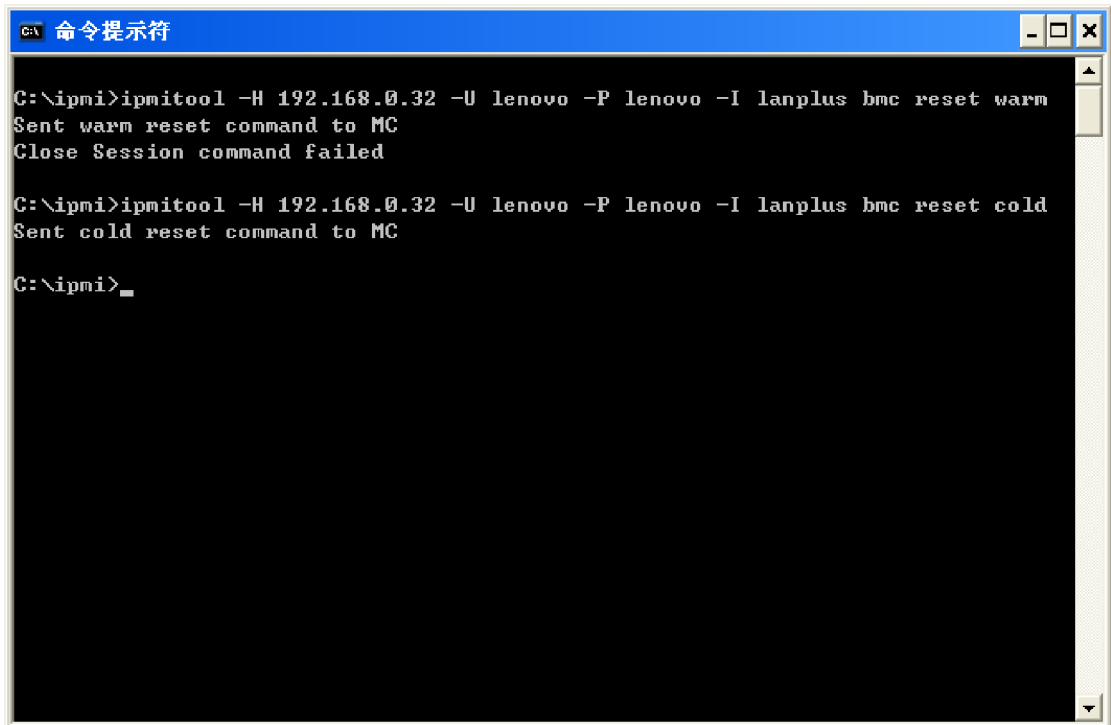
3. Warm Reset



```
C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus raw 0x06 0x03
Unable to send RAW command <channel=0x0 netfn=0x6 lun=0x0 cmd=0x3>
Close Session command failed
C:\ipmi>
```

具体描述在 IPMI SPEC 274 页

上述两个命令直接使用 IPMITool 的方式



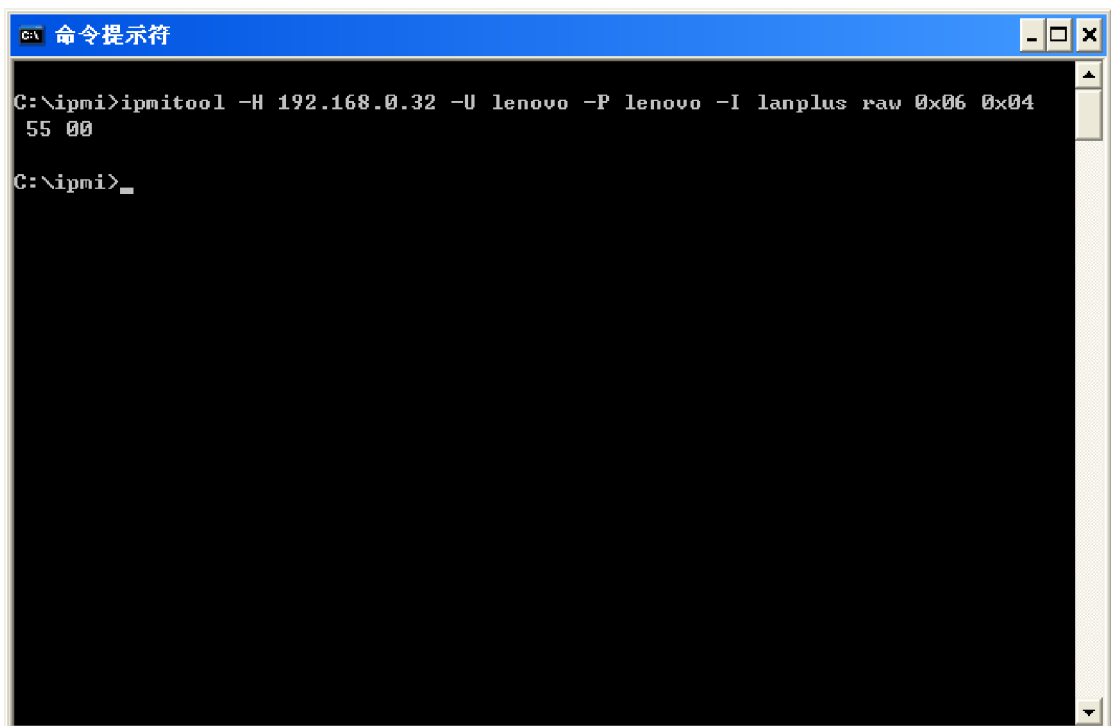
```
C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus bmc reset warm
Sent warm reset command to MC
Close Session command failed

C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus bmc reset cold
Sent cold reset command to MC

C:\ipmi>_
```

4. Get Self Test Results

A.直接发 Raw 命令的方式



```
C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus raw 0x06 0x04
55 00

C:\ipmi>_
```

具体解释在 275 页

B.使用 IPMITool 的方式

```
命令提示符
Sent cold reset command to MC

C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus bmc
MC Commands:
  reset <warm|cold>
  info
  selftest
  getenables
  setenables <option=on|off> ...
  recv_msg_intr      Receive Message Queue Interrupt
  event_msg_intr     Event Message Buffer Full Interrupt
  event_msg          Event Message Buffer
  system_event_log   System Event Logging
  oem0                OEM 0
  oem1                OEM 1
  oem2                OEM 2

C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus bmc selftest
Selftest: passed

C:\ipmi>
```

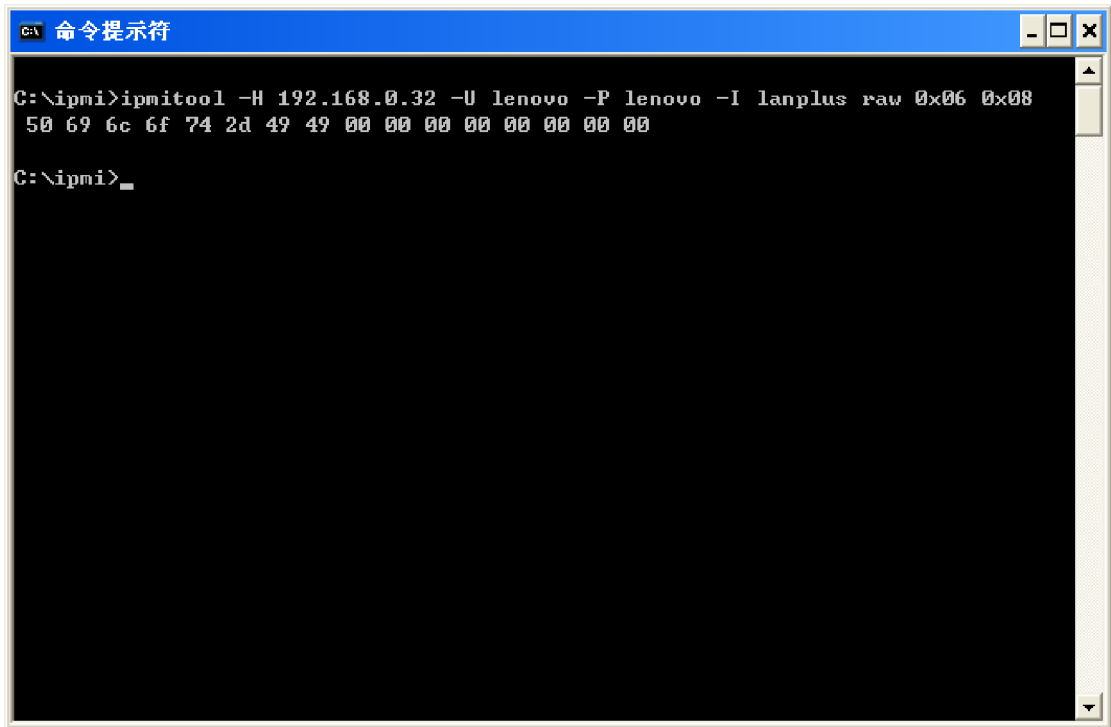
5. Manufacturing Test On
奇怪，没有返回数据？
6. Set ACPI Power State
IPMI SPEC 276 页
7. Get ACPI Power State
IPMI SPEC 278 页

```
命令提示符

C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus raw 0x06 0x07
00 00

C:\ipmi>
```

8. Get Device GUID
IPMI SPEC 278 页



```
C:\ipmi>ipmitool -H 192.168.0.32 -U lenovo -P lenovo -I lanplus raw 0x06 0x08
50 69 6c 6f 74 2d 49 49 00 00 00 00 00 00 00
C:\ipmi>
```

- 9. Broadcast 'Get Device ID' (Receive only)
- 10. IPMI SPEC 279 页

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