



Dmidecode - собираем информацию о "начинке" сервера

Опубликовано muff в Ср, 2012-01-18 04:46

Понадобилось как-то узнать подробно, из каких комплектующих собран удаленный сервер, работающий под управлением **FreeBSD**. Вывода `/var/run/dmesg.boot` в моем случае было явно недостаточно... В таких ситуациях на помощь приходит утилита **dmidecode**. С ее помощью можно получить детальную информацию о материнской плате, процессоре, оперативной памяти и тд.

Установка утилиты выполняется из системы портов и проблем не вызывает:

```
# cd /usr/ports/sysutils/dmidecode && make install clean && rehash
```

По завершению установки (которая, кстати, выполняется довольно шустро) советую ознакомиться со страницами руководства:

```
# man dmidecode
```

Ну и, собственно, теперь можно "пожинать плоды". Вывод информации о "железе" (обрезал вывод, поскольку вывод информации предоставляется довольно много):

```
# dmidecode | less

# dmidecode 2.11
SMBIOS 2.3 present.
61 structures occupying 2340 bytes.
Table at 0x000FA380.

Handle 0x0000, DMI type 0, 20 bytes
BIOS Information
  Vendor: American Megatrends Inc.
  Version: 080010
  Release Date: 10/19/2004
  Address: 0xF0000
  Runtime Size: 64 kB
  ROM Size: 1024 kB
  Characteristics:
    ISA is supported
    PCI is supported
    PNP is supported
    APM is supported
    BIOS is upgradeable
    BIOS shadowing is allowed
    ESCD support is available
    Boot from CD is supported
    Selectable boot is supported
    BIOS ROM is socketed
    EDD is supported
    5.25"/1.2 MB floppy services are supported (int 13h)
    3.5"/720 kB floppy services are supported (int 13h)
    3.5"/2.88 MB floppy services are supported (int 13h)
    Print screen service is supported (int 5h)
    8042 keyboard services are supported (int 9h)
    Serial services are supported (int 14h)
    Printer services are supported (int 17h)
    CGA/mono video services are supported (int 10h)
```



ACPI is supported
USB legacy is supported
AGP is supported
LS-120 boot is supported
ATAPI Zip drive boot is supported
BIOS boot specification is supported
Function key-initiated network boot is supported

Handle 0x0001, DMI type 1, 25 bytes

System Information

Manufacturer: Supermicro

Product Name: X6DVA

Version: 1234567890

Serial Number: 1234567890

UUID: 00020003-0004-0005-0006-000700080009

Wake-up Type: Power Switch

Handle 0x0002, DMI type 2, 8 bytes

Base Board Information

Manufacturer: Supermicro

Product Name: X6DVA

Version: 1234567890

Serial Number: 1234567890

* * *

Handle 0x0038, DMI type 17, 27 bytes

Memory Device

Array Handle: 0x002C

Error Information Handle: Not Provided

Total Width: 128 bits

Data Width: 128 bits

Size: 512 MB

Form Factor: DIMM

Set: None

Locator: DIMM2

Bank Locator: BANK1

Type: DDR

Type Detail: Synchronous

Speed: Unknown

Manufacturer: Manufacturer5

Serial Number: SerNum5

Asset Tag: AssetTagNum5

Part Number: PartNum5

Handle 0x0039, DMI type 20, 19 bytes

Memory Device Mapped Address

Starting Address: 0x000000000000

Ending Address: 0x000200003FF

Range Size: 524289 kB

Physical Device Handle: 0x0038

Memory Array Mapped Address Handle: 0x002D

Partition Row Position: 1

Interleave Position: 2

Interleaved Data Depth: 1

Handle 0x003A, DMI type 32, 20 bytes

System Boot Information



Status: No errors detected

Handle 0x003B, DMI type 38, 18 bytes

IPMI Device Information

Interface Type: Unknown

Specification Version: 0.0

I2C Slave Address: 0x00

NV Storage Device Address: 0

Base Address: 0x0000000000000000 (Memory-mapped)

Register Spacing: Successive Byte Boundaries

Handle 0x003C, DMI type 127, 4 bytes

End Of Table

Как видите, информация довольно обширная. Чтобы конкретизировать получаемую информацию, необходимо указывать соответствующие ключи. Ключи можно узнать на странице ман-руководства. Например, чтобы вывести информацию о процессорах (в моем случае их два). Пример такого запроса:

```
# dmidecode --type 4
```

```
# dmidecode 2.11
```

```
SMBIOS 2.3 present.
```

```
Handle 0x0004, DMI type 4, 35 bytes
```

```
Processor Information
```

```
Socket Designation: CPU 1
```

```
Type: Central Processor
```

```
Family: Pentium 4
```

```
Manufacturer: Intel
```

```
ID: 41 0F 00 00 FF FB EB BF
```

```
Signature: Type 0, Family 15, Model 4, Stepping 1
```

```
Flags:
```

```
FPU (Floating-point unit on-chip)
```

```
VME (Virtual mode extension)
```

```
DE (Debugging extension)
```

```
PSE (Page size extension)
```

```
TSC (Time stamp counter)
```

```
MSR (Model specific registers)
```

```
PAE (Physical address extension)
```

```
MCE (Machine check exception)
```

```
CX8 (CMPXCHG8 instruction supported)
```

```
APIC (On-chip APIC hardware supported)
```

```
SEP (Fast system call)
```

```
MTRR (Memory type range registers)
```

```
PGE (Page global enable)
```

```
MCA (Machine check architecture)
```

```
CMOV (Conditional move instruction supported)
```

```
PAT (Page attribute table)
```

```
PSE-36 (36-bit page size extension)
```

```
CLFSH (CLFLUSH instruction supported)
```

```
DS (Debug store)
```

```
ACPI (ACPI supported)
```

```
MMX (MMX technology supported)
```

```
FXSR (FXSAVE and FXSTOR instructions supported)
```

```
SSE (Streaming SIMD extensions)
```

```
SSE2 (Streaming SIMD extensions 2)
```

```
SS (Self-snoop)
```

```
HTT (Multi-threading)
```

```
TM (Thermal monitor supported)
```



PBE (Pending break enabled)
Version: Intel(R) Xeon(TM) CPU 2.80GHz
Voltage: 3.3 V 2.9 V
External Clock: 800 MHz
Max Speed: 2800 MHz
Current Speed: 2800 MHz
Status: Populated, Enabled
Upgrade: Socket 478
L1 Cache Handle: 0x0005
L2 Cache Handle: 0x0006
L3 Cache Handle: 0x0007
Serial Number: To Be Filled By O.E.M.
Asset Tag: To Be Filled By O.E.M.
Part Number: To Be Filled By O.E.M.

Handle 0x0008, DMI type 4, 35 bytes

Processor Information

Socket Designation: CPU 2
Type: Central Processor
Family: Pentium 4
Manufacturer: Intel
ID: 41 0F 00 00 FF FB EB BF
Signature: Type 0, Family 15, Model 4, Stepping 1
Flags:

FPU (Floating-point unit on-chip)
VME (Virtual mode extension)
DE (Debugging extension)
PSE (Page size extension)
TSC (Time stamp counter)
MSR (Model specific registers)
PAE (Physical address extension)
MCE (Machine check exception)
CX8 (CMPXCHG8 instruction supported)
APIC (On-chip APIC hardware supported)
SEP (Fast system call)
MTRR (Memory type range registers)
PGE (Page global enable)
MCA (Machine check architecture)
CMOV (Conditional move instruction supported)
PAT (Page attribute table)
PSE-36 (36-bit page size extension)
CLFSH (CLFLUSH instruction supported)
DS (Debug store)
ACPI (ACPI supported)
MMX (MMX technology supported)
FXSR (FXSAVE and FXSTOR instructions supported)
SSE (Streaming SIMD extensions)
SSE2 (Streaming SIMD extensions 2)
SS (Self-snoop)
HTT (Multi-threading)
TM (Thermal monitor supported)
PBE (Pending break enabled)

Version: Intel(R) Xeon(TM) CPU 2.80GHz
Voltage: 3.3 V 2.9 V
External Clock: 800 MHz
Max Speed: 2800 MHz
Current Speed: 2800 MHz
Status: Populated, Enabled
Upgrade: Socket 478



L1 Cache Handle: 0x0009
L2 Cache Handle: 0x000A
L3 Cache Handle: 0x000B
Serial Number: To Be Filled By O.E.M.
Asset Tag: To Be Filled By O.E.M.
Part Number: To Be Filled By O.E.M.

Теперь дело за малым - "повыдергивать" из вывода **dmidencode** необходимую информацию.

Источник (получено 2026-04-08 21:23):

<http://muff.kiev.ua/content/dmidencode-sobiraem-informatsiyu-o-nachinke-servera>