



Dmidecode - собираем информацию о "начинке" сервера

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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 2026-07-02 03:28):

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