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## FreeBSD CPU Information

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**Q.** How do I get more information about CPU under FreeBSD such as CPU Speed and model?

**A.** You can use the dmesg utility displays the contents of the system message buffer when FreeBSD comes up. For accuracy I recommend querying /var/run/dmesg.boot file. Usually a snapshot of the buffer contents taken soon after file systems are mounted at startup time and dumped to /var/run/dmesg.boot file.

## Check CPU Speed in FreeBSD

Type the command at a shell prompt:

```
# sysctl -a | egrep -i 'hw.machine|hw.model|hw.ncpu'
```

Sample output:

```
hw.machine: amd64
hw.model: Intel(R) Xeon(R) CPU           X3220  @ 2.40GHz
hw.ncpu: 4
hw.machine_arch: amd64
```

So I've Intel Xeon quad core processor running at 2.40GHz speed.

You need to use following commands in association with grep command.

### FreeBSD CPUINFO using dmesg command

Type the following command

```
# dmesg | grep -i cpu
```

Or directly query /var/run/dmesg.boot file

```
# grep -i cpu /var/run/dmesg.boot
```

Output:

```
CPU: Dual Core AMD Opteron(tm) Processor 170 (1999.08-MHz 686-class CPU)
FreeBSD/SMP: Multiprocessor System Detected: 2 CPUs
cpu0 (BSP): APIC ID: 0
cpu1 (AP): APIC ID: 1
cpu0: on acpi0
acpi_throttle0: on cpu0
cpu1: on acpi0
acpi_throttle1: on cpu1
SMP: AP CPU #1 Launched!
```

You can also dump more information using sysctl command

```
# sysctl -a | grep -i cpu | less
```

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