

CPU speed not reported correctly

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2004-12/3339.html>

From: Michael W. Oliver (*michael_at_gargantuan.com*)

Date: 12/29/04

Date: Wed, 29 Dec 2004 16:25:55 -0500
To: amd64@freebsd.org; questions@freebsd.org

Hello again folks. Here is the head of my `dmesg -a`:

Copyright (c) 1992-2004 The FreeBSD Project.

Copyright (c) 1979, 1980, 1983, 1986, 1988, 1989, 1991, 1992, 1993, 1994

The Regents of the University of California. All rights reserved.

FreeBSD 6.0-CURRENT #3: Wed Dec 29 09:10:47 EST 2004

mwoliver@gambit.gargantuan.com:usr/obj/usr/src/sys/GAMBIT

WARNING: debug.mpsafenet forced to 0 as ipsec requires Giant

WARNING: MPSAFE network stack disabled, expect reduced performance.

Preloaded elf kernel "/boot/kernel/kernel" at 0xffffffff8091e000.

Preloaded elf obj module "/boot/kernel/sound.ko" at 0xffffffff8091e1a8.

Preloaded elf obj module "/boot/kernel/snd_via8233.ko" at 0xffffffff8091e7d0.

Preloaded acpi_dsdtd "/boot/DSDT.aml" at 0xffffffff8091ed00.

Preloaded elf obj module "/boot/kernel/ng_ubt.ko" at 0xffffffff8091ed50.

Preloaded elf obj module "/boot/kernel/netgraph.ko" at 0xffffffff8091f278.

Preloaded elf obj module "/boot/kernel/radeon.ko" at 0xffffffff8091f8a8.

Preloaded elf obj module "/boot/kernel/agp.ko" at 0xffffffff8091fe50.

ACPI APIC Table: <PTLTD APIC >

Calibrating clock(s) ... i8254 clock: 1193174 Hz

CLK_USE_I8254_CALIBRATION not specified - using default frequency

Timecounter "i8254" frequency 1193182 Hz quality 0

Calibrating TSC clock ... TSC clock: 801825045 Hz

CPU: AMD Athlon(tm) 64 Processor 3400+ (801.83-MHz K8-class CPU)

Origin = "AuthenticAMD" Id = 0xf4a Stepping = 10

Features=0x78bfbf<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CMOV,PAT,PSE

AMD Features=0xe0500800<SYSCALL,NX,MMX+,LM,3DNow+,3DNow>

L1 2MB data TLB: 8 entries, fully associative

L1 2MB instruction TLB: 8 entries, fully associative

L1 4KB data TLB: 32 entries, fully associative

L1 4KB instruction TLB: 32 entries, fully associative

L1 data cache: 64 kbytes, 64 bytes/line, 1 lines/tag, 2-way associative

L1 instruction cache: 64 kbytes, 64 bytes/line, 1 lines/tag, 2-way associative

L2 2MB unified TLB: 0 entries, disabled/not present

L2 4KB data TLB: 512 entries, 4-way associative

L2 4KB instruction TLB: 512 entries, 4-way associative

L2 unified cache: 1024 kbytes, 64 bytes/line, 1 lines/tag, 16-way associative

freebsd-questions: CPU speed not reported correctly

OK, here is my question: Why is the CPU speed reported as 801.83MHz?
Is there something really wrong with my setup here? I have this machine configured to dual boot with the other OS being the x64 version of XP, and it reports a 2.2GHz CPU (for what it's worth...).

Is this just some cosmetic thing, or is my CPU really running that slow?

```
$ uname -a
```

```
FreeBSD gambit.gargantuan.com 6.0-CURRENT FreeBSD 6.0-CURRENT #3: Wed  
Dec 29 09:10:47 EST 2004  
mwoliver@gambit.gargantuan.com:/usr/obj/usr/src/sys/GAMBIT amd64
```

Thanks.

```
--
```

```
Michael W. Oliver
```

```
[see complete headers for contact information]
```

-
- application/pgp-signature attachment: stored