

## Motherboards with SocketA-CPU's

(Athlon, Athlon MP, Athlon XP, Duron: Palomino, Thoroughbred)

Asus: A7M266-D

Chaintech: 7KDD

Gigabyte: GA-7DPXDW+

Iwill: MPX2

MSI: K7D Master (MS-6501), K7D Master-L (MS-6501)

Tyan: Thunder K7 S2462UNG, K7X S2468GN, Tiger MP S2460, MPX S2466N-4M

## Workstations

**Compaq:** Proliant 1850, 6400R, 6500R, 850R

**Dell:** PowerEdge 1650, 530, WorkStation 530, 650

**Fujitsu-Siemens:** Primergy 470, C200, F250, P200, TX600

**Gateway:** 7250R, ALR 7300

**Hewlett-Packard:** Kayak, ProLiant DL360 G3, DL380 G3, ML330 G3, Vectra Xu 2/200

**IBM:** Netfinity 3500 M20, 4000R, 4500

**Sun:** Fire V65x

**Supermicro:** 7043A-8R

**Transtec:** 1001L Premium

## Additional Information

### Kernel Compilation:

```
# cd /usr/src/sys/i386/conf
```

```
# cp GENERIC SMPKERNEL
```

To make the FreeBSD kernel SMP capable please add following entries:

```
options SMP
```

```
options APIC_IO
```

Please remove following entries if existent:

```
cpu      i386
```

```
cpu      i486
```

Those CPU types are not SMP-capable

### Save your Configuration:

```
# cd /usr/src
```

```
# make buildkernel KERNCONF=SMPKERNEL
```

```
# make installkernel KERNCONF=SMPKERNEL
```

You may choose any name for your SMP-capable kernel, SMP-KERNEL is just an example. Pay attention to any error messages while compiling and installing. Also make sure you save your old kernel and it's modules, before creating a new kernel.

### Helpful Commands

mptable: Shows multi-processor information

mptable -grope: Shows the contents of registers in case of failure, only if necessary.

mptable -dmesg: Shows multi-processor information and dmesg-output.

### Helpful Links

FreeBSD-Homepage: [www.FreeBSD.org](http://www.FreeBSD.org)

BSD-Forum (english): [www.BSDForums.org](http://www.BSDForums.org)

Intel MPS1.4 Specification:

[www.intel.com/design/archives/processors/pro/docs/242016.htm](http://www.intel.com/design/archives/processors/pro/docs/242016.htm)

FreeBSD amd64-motherboards:

<http://www.FreeBSD.org/platforms/amd64/motherboards.html>

FreeBSD-Handbook: [www.FreeBSD.org](http://www.FreeBSD.org)

This information was compiled by Gregor Bittel:

[www.bnv-bamberg.de/home/ba3294/smp/index.htm](http://www.bnv-bamberg.de/home/ba3294/smp/index.htm)

There you may find more information to the motherboards and systems described here.

### Important Notice:

The motherboards and systems listed here were reported by users to run FreeBSD. If a motherboard or system fulfills Intel's MPS 1.1 or 1.4 specification FreeBSD should run on it.

If you see something not listed here or have any suggestions, please contact [Daniel.Seuffert@allBSD.de](mailto:Daniel.Seuffert@allBSD.de), we will update this flyer. Thanks for helping us!

# FreeBSD

## Multiprocessor



## Motherboards with Slot1-CPU's

**(Pentium-II/III:  
Klamath, Deschutes, Katmai, Coppermine)**

**AMI:** AMI Mega RUN II

**Asus:** P2B-D, P2B-DS, P2L97-DS

**A-Trend:** ATC-6260

**Chaintech:** CT-6BDU0

**DFI:** P2XBL-D

**Elitegroup:** P6LX2-A

**Epox:** KP6-BS

**Fujitsu-Siemens:** D1031

**Gigabyte:** GA-686DL2 , GA-686DLX, GA-686LX2 , GA-6BXD, GA-6BXDS, GA-6BXDU

**Intel:** L440GX+, N440BX, OR840

**Iwill:** DPIILS2

**MSI:** MS-6120 (MS-6120)

**M-Technology:** ATX-M668DS

**QDI:** Legend IV

**Soyo:** D6IBA

**Supermicro:** P6DBE, P6DBS, P6DGE, P6DGH, P6DGU, P6DLH, PIIIDR3

**Tekram:** P6B40D-A5

**Tyan:** Thunder 100 S1836DLUAN-BX, 2400 S2257DUAN, 2500 S1867DLUAN, 2 ATX S1696DLUAN, Thunderbolt-L S1837UANG-L, Tiger 100 S1832DL, 133 S1834D, 133 S1834D-I

## Motherboards with Slot2-CPU's

**(Pentium-II/III(XEON):  
Drake, Tanner, Cascades)**

**Asus:** XG-DLS

**Intel:** C440GX+, MS440GX, SKA4

**Siemens-Nixdorf:** D1065

**Supermicro:** S2DGE, S2DL3

**Tyan:** Thunder X S1952DLU

## Motherboards with Socket370-CPU's

**(Celeron PPGA, Pentium III/III-S:  
Mendocino, Coppermine, Tualatin)**

**Abit:** BP6, VP6

**Acorp:** 6A815EPD

**Aopen:** DX34R-U

**Asus:** CUR-DLS (U2W), CUR-DLS (U160), CUV4X-D, CUV4X-DLS

**Elitegroup:** D6VAA

**Epox:** EP-D3VA

**Fujitsu-Siemens:** D1306

**Gigabyte:** GA-6VTXD, GA-6VTXDR-C, GA-6VXD7, GA-6VXDC7

**Intel:** SCB2, SDS2, STL2

**Micron:** Lincoln

**MSI:** 694D Pro (MS-6321), 694D Pro-AIR (MS-6321), 694D Pro-AR (MS-6321), Pro266TD Master-LR (MS-9105)

**PCChips:** M790MR

**Supermicro:** 370DE6, 370DL3, 370DLE, P3TDE6, P3TDLE

**Tyan:** Thunder HEsl S2567U3AN, LE S2510NG, LE-T S2518GN, LE-T S2518UGN, Tiger 200 S2505DNDR, 200T S2505TDNDR, 230 S2507D, Tyan Tiger 230T S2507T

## Motherboards with Socket603-CPU's

**(Pentium XEON/XEON-MP:  
Foster, Gallatin, Prestonia)**

**Fujitsu-Siemens:** D1309, D1411

**Intel:** SE7500CW2, SHG2, SSH4

**Iwill:** DP400

**MSI:** E7500 Master-LS (MS-9101)

**Supermicro:** P4DC6+, P4DCE+, P4DP6, P4DPE-G2, P4DPR-6GM+

**Tyan:** Thunder i7500 S2720UGN

## Motherboards with Socket604-CPU's

**(Pentium XEON/XEON-EM64T:  
Foster, Nacona, Prestonia)**

**Asus:** NCCCH-DL, PC-DL Deluxe, PP-DLW, PR-DLS, PR-DLSR, PR-DLSR533

**Gigabyte:** GA-8EGXDR-E

**Intel:** SE7500WV2, SE7501BR2, SE7501CW2, SE7501HG2, SE7501WV2, SE7520BD2-SCSI, SE7520JR2-ATAD2

**Iwill:** DP533

**MSI:** E7501 Master-LS2 (MS-9138)

**Supermicro:** X5DA8, X5DAL-G, X5DEi-GG, X5DL8-GG, X5DP8-G2, X5DPR-8G2+, X6DH8-G2, X6DHE-G2, X6DHR-TG

**Tyan:** Thunder i7505 S2665ANF, Tiger GC-SL S2727GNN, i7505 S2668AN, i7505 S2668ANR

## Motherboards with Socket8-CPU's

**(Pentium Pro: P6, P6T)**

**ALR:** Revolution 6x6

**Asus:** P/I-P65UP5 & C-P6ND, P/I-P65UP8 & C-P6ND

**Elitegroup:** P6FX2-A

**Gigabyte:** GA-686DX

**Intel:** PR440FX

**Micronics:** W6-LI

**Siemens-Nixdorf:** D887, D970

**Supermicro:** P6DNF

**TMC:** TD6NF

**Tyan:** Titan-Pro AT S1662, S1668

## Motherboards with Socket940-CPU's

**(AMD Opteron: Sledgehammer):**

**Fujitsu-Siemens:** D1692

**Iwill:** DK8X

**MSI:** K8D Master-F (MS-9131), K8T Master2-FAR (MS-9130)

**Tyan:** Thunder K8QS Pro S4882UG2NR, K8S Pro S2882G3NR, K8S S2880GNR, K8W S2885ANRF, K8W S2875ANRF