CFP2000 Result

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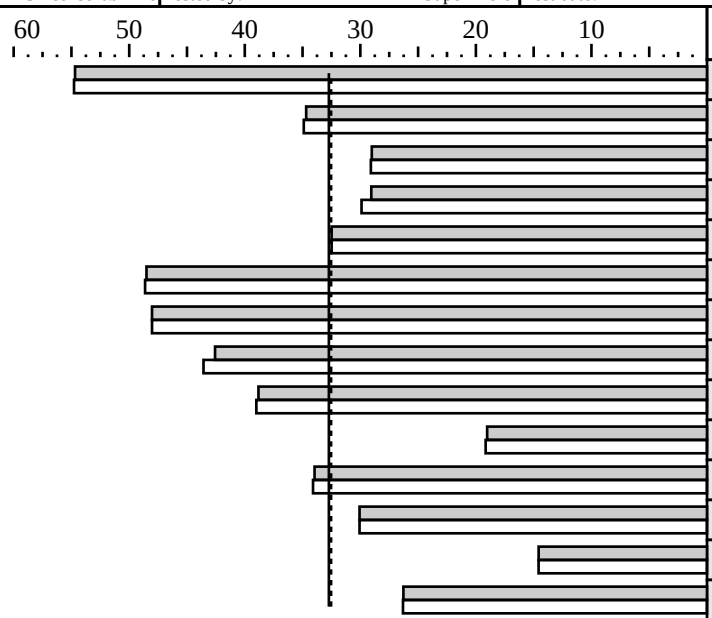
Supermicro
PDSM4/E Motherboard

SPECfp_rate2000 = 32.7

SPECfp_rate_base2000 = 32.5

SPEC license #01176 | Tested by: Supermicro | Test date: Aug-2005 | Hardware Avail: Aug-2005 | Software Avail: Apr-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	67.9	54.7	2	67.8	54.8
171.swim	2	207	34.7	2	206	34.9
172.mgrid	2	144	29.0	2	144	29.1
173.applu	2	168	29.1	2	163	29.9
177.mesa	2	100.0	32.5	2	100.0	32.5
178.galgel	2	139	48.5	2	138	48.6
179.art	2	126	48.0	2	126	48.0
183.equake	2	70.8	42.6	2	69.2	43.6
187.facerec	2	114	38.8	2	113	39.0
188.ammp	2	268	19.0	2	266	19.2
189.lucas	2	137	34.0	2	136	34.1
191.fma3d	2	162	30.1	2	162	30.1
200.sixtrack	2	175	14.6	2	175	14.6
301.apsi	2	230	26.3	2	229	26.3

Hardware

CPU:	Intel Pentium D 840 Processor (3.2GHz, 800 MHz bus)
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	12k micro-ops I + 16KBD/core on chip
Secondary Cache:	1024KB/core on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4 X 1024MB DDR2-667 ECC Unbuffered
Disk Subsystem:	1 X IDE Maxtor DiamondMax Plus 9 250GB
Other Hardware:	N/A

Software

Operating System:	Windows 2003 Enterprise Server
Compiler:	Intel C++ and Fortran Compiler 9.0 Build 20050430Z (32-bit) Microsoft Visual Studio .Net 2003(for libraries) SmartHeap Library Version 7.4 from http://www.microquill.com/
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
+FDO: PASS1=  -Qprof_gen  PASS2=-Qprof_use
Base tuning for Fortran programs:  -fast -Qansi_alias +FDO
Base tuning for 177.mesa:  -fast shlW32M.lib +FDO
Base tuning for 179.art:  -fast shlW32M.lib +FDO
Base tuning for 183.equake:  -fast shlW32M.lib +FDO
Base tuning for 188.ammp:  -fast shlW32M.lib +FDO
Portability:
178.galgel:   -FI /F32000000
191.fmma3d approved windowsdp src.alt used
Peak tuning:
168.wupwise:  -fast -Qansi_alias +FDO
171.swim:     -fast -Qansi_alias +FDO
172.mgrid:    -fast -Qansi_alias +FDO
173.applu:  -fast -Qscalar_rep- -Qauto  +FDO
177.mesa:   basepeak=yes
178.galgel:   -fast -Qansi_alias +FDO
179.art:      basepeak=yes
```

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Notes/Tuning Information (Continued)

```
183.equake:   -QxP -Oa -Qrcd -Qipo shlW32M.lib +FDO
187.facerec:  -fast -Qunroll1 -Qscalar_rep- +FDO
188.ammp:     -fast -Oa +FDO shlW32M.lib
189.lucas:    -fast -Qprefetch- +FDO
191.fma3d:    basepeak=yes
200.sixtrack: -Qipo -QxP +FDO
```

Tested system was built with 2U SC823S-R500LP Chassis. For a general system, a 420W (minimum) ATX12V power supply [4-pin +12V AND 24-pin is recommended to assure system stability].

Product description located as of:
http://www.supermicro.com/products/motherboard/DualCore/E7230/PDSM4.cfm
The system bus runs at 800MHz