CFP2000 Result

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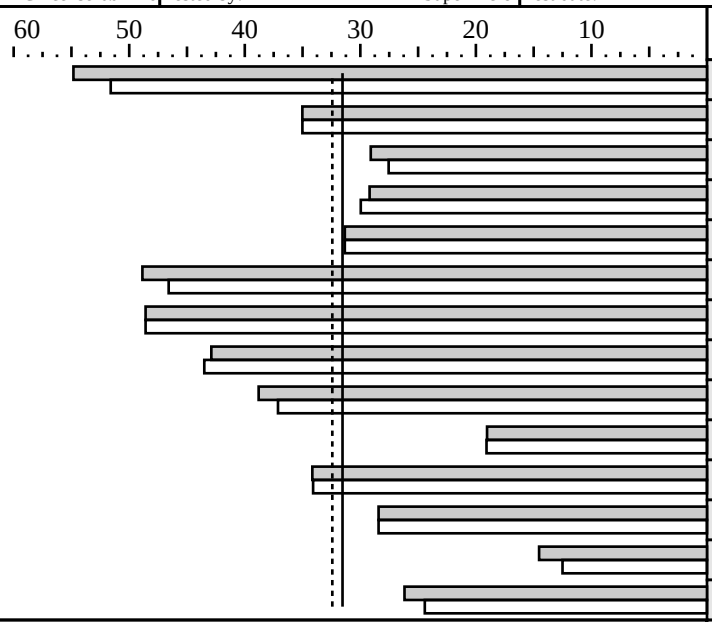
Supermicro
PDSMP-8/i Motherboard

SPECfp_rate2000 = 31.5

SPECfp_rate_base2000 = 32.4

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	67.7	54.8	2	71.9	51.6
171.swim	2	205	35.0	2	205	35.0
172.mgrid	2	144	29.1	2	152	27.5
173.applu	2	167	29.2	2	163	30.0
177.mesa	2	104	31.3	2	104	31.3
178.galgel	2	138	48.9	2	144	46.6
179.art	2	124	48.6	2	124	48.6
183.equake	2	70.3	42.9	2	69.3	43.5
187.facerec	2	114	38.8	2	119	37.1
188.ammp	2	268	19.0	2	268	19.1
189.lucas	2	136	34.2	2	136	34.1
191.fma3d	2	171	28.4	2	171	28.4
200.sixtrack	2	176	14.5	2	204	12.5
301.apsi	2	230	26.2	2	247	24.4

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 1U SC816S-400 -Redundant Power Supply.  Use only with Supermicro 1U chassis recommended
Product description located as of:
http://www.supermicro.com/products/motherboard/DualCore/E7230/PDSMP-8.cfm
The system bus runs at 800MHz
```