CFP2000 Result

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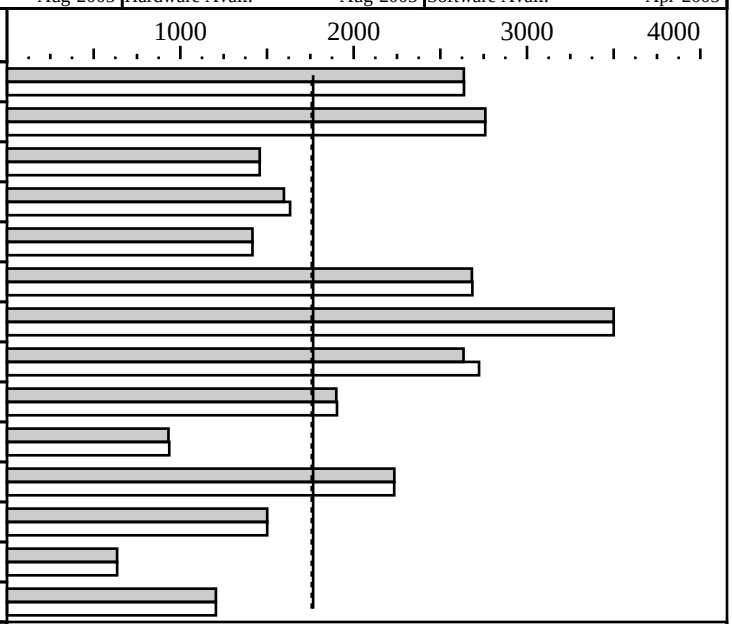
Supermicro
PDSM4/E Motherboard

SPECfp2000 = 1766

SPECfp_base2000 = 1758

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	60.7	2636	60.7	2636
171.swim	3100	112	2760	112	2759
172.mgrid	1800	123	1458	123	1458
173.applu	2100	131	1598	129	1633
177.mesa	1400	98.9	1416	98.9	1416
178.galgel	2900	108	2682	108	2685
179.art	2600	74.3	3500	74.3	3500
183.equake	1300	49.4	2634	47.7	2723
187.facerec	1900	100	1900	99.8	1904
188.ammp	2200	236	931	235	936
189.lucas	2000	89.5	2235	89.5	2234
191.fma3d	2100	140	1501	140	1501
200.sixtrack	1100	173	635	173	635
301.apsi	2600	216	1205	216	1205



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