CFP2000 Result

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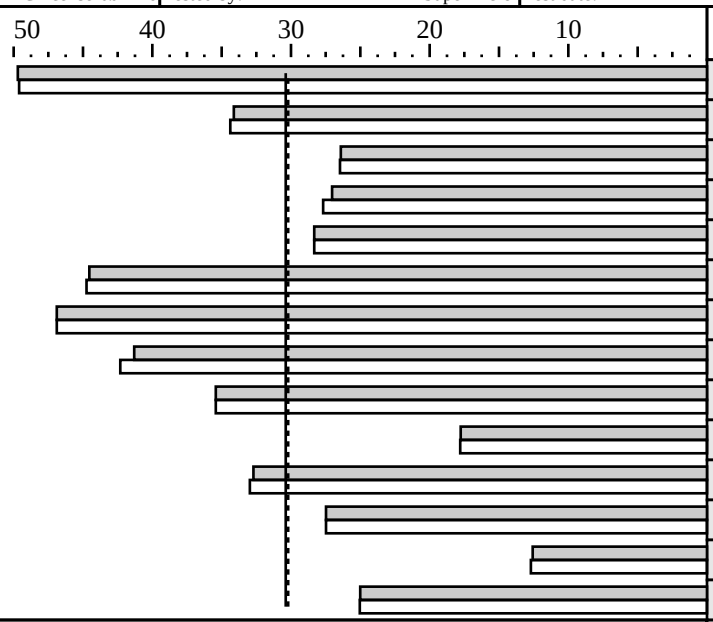
Supermicro
PDSMA Motherboard

SPECfp_rate2000 = 30.4

SPECfp_rate_base2000 = 30.2

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	74.7	49.7	2	74.8	49.6
171.swim	2	211	34.1	2	209	34.4
172.mgrid	2	158	26.4	2	158	26.5
173.applu	2	180	27.0	2	176	27.7
177.mesa	2	115	28.3	2	115	28.3
178.galgel	2	151	44.5	2	150	44.7
179.art	2	129	46.9	2	129	46.9
183.equake	2	73.0	41.3	2	71.3	42.3
187.facerec	2	124	35.4	2	124	35.4
188.ammp	2	287	17.8	2	287	17.8
189.lucas	2	142	32.7	2	141	33.0
191.fma3d	2	177	27.5	2	177	27.5
200.sixtrack	2	203	12.6	2	201	12.7
301.apsi	2	241	25.0	2	241	25.0

Hardware

CPU:	Intel Pentium D 840 Processor (3.2 GHz, 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 1.0GB Hynix DDR2 667MHz
Disk Subsystem:	400GB Hitachi HDS724040KLSA80 SATA HDD
Other Hardware:	N/A

Software

Operating System:	Windows Server 2003 Enterprise Server w/SP1
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 C programs: -fast +FDO shlW32M.lib
shlW32M.lib is the SmartHeap Library
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
183.equake:   -QxP -Oa -Qrcd -Qipo shlW32M.lib +FDO
187.facerec:  -fast -Qunroll1 -Qscalar_rep- +FDO
```

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Notes/Tuning Information (Continued)

188.ammp: -fast -Oa +FDO shlW32M.lib
189.lucas: -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
200.sixtrack: -Qipo -QxP +FDO
301.apsi: -fast +FDO
New 32-bt Windows tools used, approved in May-2005
Tested system was built with 2U SC823S-R500LP Chassis. To ensure system stability, a 350W (minimum) ATX power supply [8-pin +12V AND (20 or 24-pin)] is required
Product description located as of:
http://www.supermicro.com/products/motherboard/DualCore/E7230/PDSM4.cfm
The system bus runs at 800MHz