CFP2000 Result

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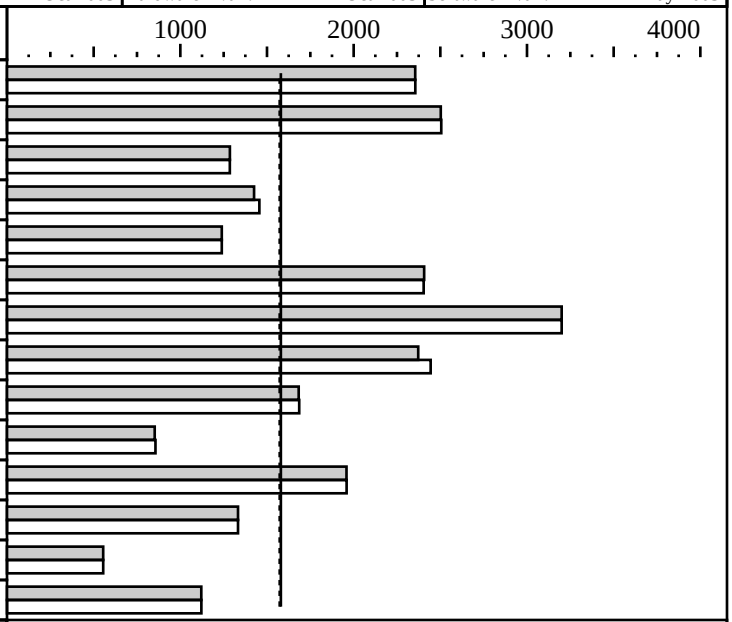
Supermicro
PDSMA Motherboard

SPECfp2000 = 1580

SPECfp_base2000 = 1573

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	67.9	2355	67.9	2356
171.swim	3100	124	2503	124	2505
172.mgrid	1800	140	1286	140	1286
173.applu	2100	147	1425	144	1456
177.mesa	1400	113	1239	113	1239
178.galgel	2900	121	2407	121	2404
179.art	2600	81.3	3200	81.3	3200
183.equake	1300	54.8	2372	53.2	2444
187.facerec	1900	113	1683	113	1686
188.ammp	2200	258	852	257	857
189.lucas	2000	102	1959	102	1959
191.fma3d	2100	158	1333	158	1333
200.sixtrack	1100	198	555	198	555
301.apsi	2600	232	1121	232	1121



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