



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 | 1000 2000 3000 4000 | | | |
|----------------|----------------|--------------|------------|---------|-------|--------------------------------|--|--|--|
| 168.wupwise | 1600 | 67.9 | 2355 | 67.9 | 2356 | [Bar chart showing ratio 2356] | | | |
| 171.swim | 3100 | 124 | 2503 | 124 | 2505 | [Bar chart showing ratio 2505] | | | |
| 172.mgrid | 1800 | 140 | 1286 | 140 | 1286 | [Bar chart showing ratio 1286] | | | |
| 173.applu | 2100 | 147 | 1425 | 144 | 1456 | [Bar chart showing ratio 1456] | | | |
| 177.mesa | 1400 | 113 | 1239 | 113 | 1239 | [Bar chart showing ratio 1239] | | | |
| 178.galgel | 2900 | 121 | 2407 | 121 | 2404 | [Bar chart showing ratio 2404] | | | |
| 179.art | 2600 | 81.3 | 3200 | 81.3 | 3200 | [Bar chart showing ratio 3200] | | | |
| 183.earthquake | 1300 | 54.8 | 2372 | 53.2 | 2444 | [Bar chart showing ratio 2444] | | | |
| 187.facerec | 1900 | 113 | 1683 | 113 | 1686 | [Bar chart showing ratio 1686] | | | |
| 188.amp | 2200 | 258 | 852 | 257 | 857 | [Bar chart showing ratio 857] | | | |
| 189.lucas | 2000 | 102 | 1959 | 102 | 1959 | [Bar chart showing ratio 1959] | | | |
| 191.fma3d | 2100 | 158 | 1333 | 158 | 1333 | [Bar chart showing ratio 1333] | | | |
| 200.sixtrack | 1100 | 198 | 555 | 198 | 555 | [Bar chart showing ratio 555] | | | |
| 301.apsi | 2600 | 232 | 1121 | 232 | 1121 | [Bar chart showing ratio 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.earthquake: -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-bit 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