



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	1000 2000 3000 4000			
168.wupwise	1600	60.7	2636	60.7	2636	[Bar chart showing ratio 2636]			
171.swim	3100	112	2760	112	2759	[Bar chart showing ratio 2759]			
172.mgrid	1800	123	1458	123	1458	[Bar chart showing ratio 1458]			
173.applu	2100	131	1598	129	1633	[Bar chart showing ratio 1633]			
177.mesa	1400	98.9	1416	98.9	1416	[Bar chart showing ratio 1416]			
178.galgel	2900	108	2682	108	2685	[Bar chart showing ratio 2685]			
179.art	2600	74.3	3500	74.3	3500	[Bar chart showing ratio 3500]			
183.earthquake	1300	49.4	2634	47.7	2723	[Bar chart showing ratio 2723]			
187.facerec	1900	100	1900	99.8	1904	[Bar chart showing ratio 1904]			
188.amp	2200	236	931	235	936	[Bar chart showing ratio 936]			
189.lucas	2000	89.5	2235	89.5	2234	[Bar chart showing ratio 2234]			
191.fmma3d	2100	140	1501	140	1501	[Bar chart showing ratio 1501]			
200.sixtrack	1100	173	635	173	635	[Bar chart showing ratio 635]			
301.apsi	2600	216	1205	216	1205	[Bar chart showing ratio 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.earthquake: -fast shlw32M.lib +FDO
Base tuning for 188.amp: -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