



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.quake	2	73.0	41.3	2	71.3	42.3
187.facerec	2	124	35.4	2	124	35.4
188.amp	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.quake: -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