CFP2000 Result

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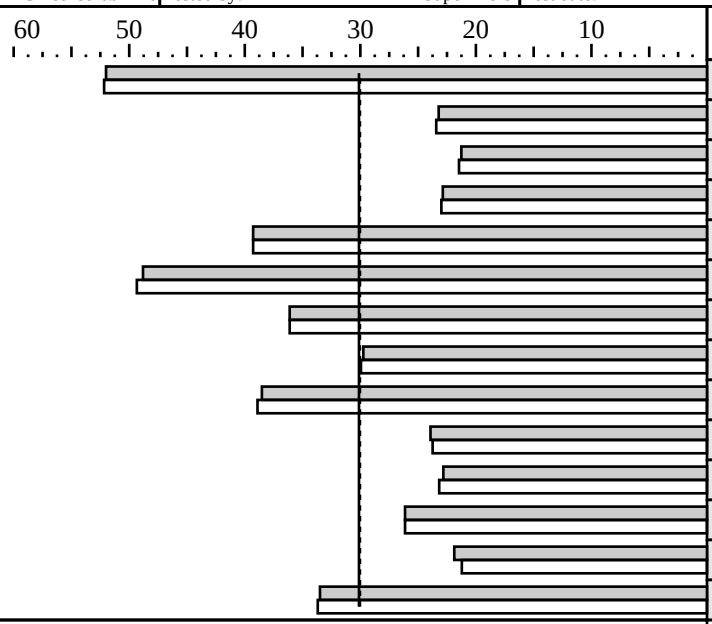
Supermicro
X6DHP-TG Motherboard

SPECfp_rate2000 = 30.1

SPECfp_rate_base2000 = 30.0

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	143	52.0	4	142	52.2
171.swim	4	619	23.2	4	614	23.4
172.mgrid	4	393	21.3	4	389	21.5
173.applu	4	426	22.9	4	424	23.0
177.mesa	4	165	39.3	4	165	39.3
178.galgel	4	276	48.8	4	273	49.3
179.art	4	334	36.1	4	334	36.1
183.equake	4	203	29.7	4	201	29.9
187.facerec	4	229	38.5	4	227	38.9
188.ammp	4	427	23.9	4	430	23.7
189.lucas	4	407	22.8	4	400	23.2
191.fma3d	4	373	26.1	4	373	26.1
200.sixtrack	4	233	21.9	4	241	21.2
301.apsi	4	360	33.5	4	358	33.7

Hardware

CPU:	Intel Xeon Processor (3.80 GHz, 2MB L2, 800 MHz bus)
CPU MHz:	3800
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip ((Hyper-Threading Technology Enabled)
CPU(s) orderable:	1,2
Parallel:	No
Primary Cache:	12k micro-ops I + 16KBD on chip
Secondary Cache:	2048KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	6GB (6x1GB 2 X 1GB DDR 333 REG ECC)
Disk Subsystem:	1 X 40GB IDE
Other Hardware:	N/A

Software

Operating System:	Windows 2003 EE 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
Product description located as of:
http://www.supermicro.com/products/motherboard/Xeon800/E7520/X6DHP-TG.cfm
The system bus runs at 800MHz
```