



CFP2000 Result

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Supermicro X6DHR-TG Motherboard

SPECfp_rate2000 = 30.0
SPECfp_rate_base2000 = 30.1

SPEC license #01176 | Tested by: Supermicro | Test date: Oct-2005 | Hardware Avail: Nov-2004 | Software Avail: Apr-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	142	52.2	4	142	52.4
171.swim	4	616	23.4	4	615	23.4
172.mgrid	4	390	21.4	4	390	21.4
173.applu	4	424	23.0	4	424	23.0
177.mesa	4	166	39.1	4	166	39.1
178.galgel	4	275	48.9	4	276	48.7
179.art	4	335	36.0	4	335	36.0
183.quake	4	201	30.0	4	201	30.0
187.facerec	4	235	37.5	4	234	37.7
188.amp	4	429	23.8	4	430	23.7
189.lucas	4	404	23.0	4	403	23.0
191.fma3d	4	372	26.2	4	372	26.2
200.sixtrack	4	234	21.8	4	241	21.2
301.apsi	4	351	34.3	4	354	34.1

Hardware

CPU: Intel Xeon 3.8GHz processor (3.8 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: 8GB (8x1GB DDR333 ECC REG)
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.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 SC813T-500 Chassis.

Product description located as of:

<http://www.supermicro.com/products/motherboard/Xeon800/E7520/X6DHR-TG.cfm>

The system bus runs at 800MHz