



# CFP2000 Result

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## Supermicro X6DHE/8-G2 Motherboard

SPECfp\_rate2000 = 31.6  
SPECfp\_rate\_base2000 = 31.6

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	136	54.5	4	137	54.1
171.swim	4	569	25.3	4	569	25.3
172.mgrid	4	358	23.3	4	358	23.3
173.applu	4	395	24.7	4	394	24.7
177.mesa	4	165	39.3	4	165	39.3
178.galgel	4	264	51.1	4	265	50.9
179.art	4	308	39.2	4	308	39.2
183.quake	4	182	33.1	4	182	33.1
187.facerec	4	222	39.7	4	222	39.8
188.amp	4	411	24.8	4	401	25.4
189.lucas	4	378	24.6	4	378	24.5
191.fma3d	4	368	26.5	4	368	26.5
200.sixtrack	4	232	22.0	4	239	21.3
301.apsi	4	357	33.8	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 DDR2-400 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 SC743S1-R760 Chassis.

Product description located as of:

<http://www.supermicro.com/products/motherboard/Xeon800/E7520/X6DH8-G2.cfm>

The system bus runs at 800MHz