



# CFP2000 Result

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## Supermicro X6DHE/8-G2 Motherboard

SPECfp2000 = 1898

SPECfp\_base2000 = 1894

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	60.0	2669	59.6	2686	
171.swim	3100	133	2326	134	2313	
172.mgrid	1800	116	1554	116	1548	
173.applu	2100	133	1576	131	1599	
177.mesa	1400	85.7	1634	85.7	1634	
178.galgel	2900	78.2	3711	78.3	3706	
179.art	2600	59.2	4392	59.2	4392	
183.earthquake	1300	47.3	2748	46.8	2778	
187.facerec	1900	100	1900	100.0	1900	
188.amp	2200	184	1193	183	1200	
189.lucas	2000	101	1985	101	1985	
191.fma3d	2100	141	1493	141	1493	
200.sixtrack	1100	147	747	147	748	
301.apsi	2600	190	1370	190	1371	

### Hardware

CPU: Intel Xeon 3.8GHz processor (3.8 GHz, 2MB L2, 800 MHz bus)  
CPU MHz: 3800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip(Hyper-Threading Technology Disabled)  
CPU(s) orderable: 1  
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.earthquake: -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