



# CFP2000 Result

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## Supermicro X6DHR-TG Motherboard

SPECfp2000 = 1804

SPECfp\_base2000 = 1804

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	63.6	2514	63.7	2514	
171.swim	3100	146	2120	146	2121	
172.mgrid	1800	120	1504	120	1503	
173.applu	2100	140	1498	138	1518	
177.mesa	1400	86.3	1621	86.3	1621	
178.galgel	2900	80.2	3614	80.3	3609	
179.art	2600	64.3	4042	64.3	4042	
183.quake	1300	51.5	2524	51.5	2526	
187.facerec	1900	105	1806	105	1807	
188.amp	2200	197	1115	198	1110	
189.lucas	2000	106	1882	107	1874	
191.fma3d	2100	147	1426	147	1426	
200.sixtrack	1100	148	744	148	745	
301.apsi	2600	194	1339	194	1337	

### 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 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