



# CFP2000 Result

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## Supermicro X6DHP-3G2 Motherboard

SPECfp2000 = 1908

SPECfp\_base2000 = 1903

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	59.5	2688	59.8	2677	
171.swim	3100	130	2382	130	2381	
172.mgrid	1800	115	1564	115	1565	
173.applu	2100	133	1574	131	1604	
177.mesa	1400	86.0	1628	86.0	1628	
178.galgel	2900	78.4	3699	78.3	3703	
179.art	2600	59.0	4406	59.0	4406	
183.earthquake	1300	47.4	2740	46.5	2796	
187.facerec	1900	100	1896	100.0	1900	
188.amp	2200	185	1189	184	1197	
189.lucas	2000	98.1	2038	98.0	2041	
191.fma3d	2100	140	1500	140	1500	
200.sixtrack	1100	148	745	148	746	
301.apsi	2600	187	1393	189	1374	

### Hardware

CPU: Intel Xeon Processor (3.80 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: 8 x 2.0GB SMART DDR2 400MHz ECC  
Disk Subsystem: 1 X 250GB Western Digital WD2500JD-00GBB0 SATA HDD  
Other Hardware: N/A

### Software

Operating System: Windows Server 2003 EE w/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 SC816TQ-600 Chassis.

Product description located as of:

<http://www.supermicro.com/products/motherboard/Xeon800/E7520/X6DHP-3G2.cfm>

The system bus runs at 800MHz