



# CFP2000 Result

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## Supermicro X6DAE/8-G2 Motherboard

SPECfp2000 = 1894  
SPECfp\_base2000 = 1889

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	59.9	2670	59.7	2679	
171.swim	3100	133	2325	133	2324	
172.mgrid	1800	116	1553	116	1550	
173.applu	2100	133	1574	132	1597	
177.mesa	1400	86.2	1624	86.2	1624	
178.galgel	2900	78.2	3707	78.3	3705	
179.art	2600	59.5	4370	59.5	4370	
183.quake	1300	48.7	2672	47.4	2743	
187.facerec	1900	100	1897	100	1897	
188.amp	2200	185	1192	184	1193	
189.lucas	2000	101	1988	101	1981	
191.fma3d	2100	141	1493	141	1493	
200.sixtrack	1100	147	747	147	748	
301.apsi	2600	190	1372	190	1369	

### 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.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 SC743S1-645 - Low Noise Chassis.

Product description located as of:

<http://www.supermicro.com/products/motherboard/Xeon800/E7525/X6DA8-G2.cfm>

The system bus runs at 800MHz