



# CFP2000 Result

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## Supermicro

X6DHP-8G2 Motherboard(Intel Xeon 3.0GHz 2M Cache)

SPECfp\_rate2000 = 23.8

SPECfp\_rate\_base2000 = 23.7

SPEC license #01176 | Tested by: Supermicro | Test date: Jun-2005 | Hardware Avail: May-2005 | Software Avail: Aug-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	170	43.6	4	170	43.7
171.swim	4	754	19.1	4	753	19.1
172.mgrid	4	491	17.0	4	492	17.0
173.applu	4	513	19.0	4	514	18.9
177.mesa	4	214	30.3	4	214	30.3
178.galgel	4	370	36.4	4	367	36.7
179.art	4	430	28.1	4	430	28.1
183.quake	4	308	19.6	4	306	19.7
187.facerec	4	271	32.5	4	270	32.6
188.amp	4	475	21.5	4	465	22.0
189.lucas	4	508	18.3	4	509	18.2
191.fma3d	4	470	20.7	4	470	20.7
200.sixtrack	4	307	16.6	4	306	16.7
301.apsi	4	481	25.1	4	480	25.1

### Hardware

CPU: Intel Xeon 3.0GHz  
CPU MHz: 3000  
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: 2 X 1GB DDR2 400 REG ECC  
Disk Subsystem: WD 74GB 10000RPM SATA  
Other Hardware:

### Software

Operating System: Windows 2003 Enterprise Edition  
Compiler: Intel C++ and Fortran Compiler 8.1 Build 20040802Z (32-bit)  
Microsoft Visual Studio .Net 2003(for libraries)  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
Base tuning: -fast -Qansi_alias +FDO
Portability:
178.galgel: -FI /F32000000
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 +FDO
187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO
188.amp: -Oa -QxP
189.lucas: -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
```



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## Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxP +FDO

301.apsi: -fast +FDO

Tested system configuration used an SC814+ Series chassis

with a 420W (minimum) ATX power supply [8-pin (+12V) and 24-pin are required]

See <http://www.supermicro.com/products/motherboard/Xeon800/E7520/X6DHP-8G2.cfm>

The system bus runs at 800 MHz