



# CFP2000 Result

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## Supermicro

Motherboard X7DB8 (3.00GHz, Intel Xeon 5160 processor)

SPECfp2000 = 2631

SPECfp\_base2000 = 2633

SPEC license #01176 Tested by: Supermicro Test date: May-2006 Hardware Avail: May-2006 Software Avail: Mar-2006

| Benchmark    | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|--------------|----------------|--------------|------------|---------|-------|
| 168.wupwise  | 1600           | 43.1         | 3712       | 43.1    | 3710  |
| 171.swim     | 3100           | 123          | 2515       | 123     | 2514  |
| 172.mgrid    | 1800           | 102          | 1760       | 102     | 1761  |
| 173.applu    | 2100           | 104          | 2019       | 104     | 2019  |
| 177.mesa     | 1400           | 49.1         | 2853       | 49.1    | 2853  |
| 178.galgel   | 2900           | 40.3         | 7188       | 40.3    | 7188  |
| 179.art      | 2600           | 24.9         | 10459      | 24.9    | 10459 |
| 183.quake    | 1300           | 44.7         | 2910       | 44.8    | 2900  |
| 187.facerec  | 1900           | 75.3         | 2523       | 75.4    | 2520  |
| 188.amp      | 2200           | 107          | 2060       | 106     | 2071  |
| 189.lucas    | 2000           | 103          | 1946       | 103     | 1946  |
| 191.fma3d    | 2100           | 109          | 1932       | 109     | 1932  |
| 200.sixtrack | 1100           | 91.6         | 1201       | 92.8    | 1185  |
| 301.apsi     | 2600           | 164          | 1585       | 164     | 1584  |

### Hardware

CPU: Intel Xeon 5160 processor (3.00 GHz, 4MB L2 shared, 1333 MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1, 2  
Parallel: --  
Primary Cache: 32KBI + 32KBD on chip per core  
Secondary Cache: 4MB(I+D) on chip shared  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 X 512MB 667MHz CL5 DDR2 FB-DIMM  
Disk Subsystem: 1 X WD 2500 250GB SATA  
Other Hardware: N/A

### Software

Operating System: Windows XP Professional 32-bits w/ SP2  
Compiler: Intel C++ and Fortran Compiler 9.1 for 32-bit applications  
Build 20060323Z Package ID: W\_FC\_P\_9.1.020  
Microsoft Visual Studio 2005 (for libraries)  
SmartHeap Library Version 8.0 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 shlW32M.lib +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: basepeak=yes
177.mesa: basepeak=yes
178.galgel: -fast -Qansi_alias +FDO
179.art: basepeak=yes
183.quake: -QxP -Oa -Qrcd -Qipo +FDO shlW32M.lib
187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO
188.amp: -fast -Oa +FDO shlW32M.lib
189.lucas: -fast -Qprefetch- +FDO
```



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## Notes/Tuning Information (Continued)

191.fma3d: basepeak=yes

200.sixtrack: -Qipo -QxP +FDO

301.apsi: -fast +FDO

Tested systems can be used with SC825S2-R700LPV case,

To ensure system stability, a 500W (minimum) ATX power supply

[4-pin (+12V), 8-pin (+12V) and 24-pin are required]

Product description located as of X7DA8:

<http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DB8.cfm>

The system bus runs at 1333 MHz