



# CFP2000 Result

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## Supermicro

Motherboard X7DB3 ( 3.00GHz, Intel Xeon 5160 processor)

SPECfp\_rate2000 = 74.6

SPECfp\_rate\_base2000 = 74.6

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

250      200      150      100      50					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
					168.wupwise	4	76.0	97.7	4	76.0	97.7
					171.swim	4	299	48.1	4	299	48.1
					172.mgrid	4	189	44.1	4	189	44.2
					173.applu	4	203	48.0	4	203	48.0
					177.mesa	4	52.5	124	4	52.5	124
					178.galgel	4	59.9	225	4	59.7	225
					179.art	4	63.9	189	4	63.9	189
					183.quake	4	102	59.4	4	102	59.4
					187.facerec	4	100	87.9	4	101	87.7
					188.amp	4	150	68.0	4	149	68.7
					189.lucas	4	191	48.5	4	192	48.5
					191.fma3d	4	176	55.4	4	176	55.4
					200.sixtrack	4	96.0	53.2	4	97.4	52.4
					301.apsi	4	193	62.5	4	193	62.4

### Hardware

CPU: Intel Xeon 5160 processor ( 3.00 GHz, 4MB L2 shared, 1333 MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
CPU(s) orderable: 1, 2  
Parallel: No  
Primary Cache: 32KBI + 32KBD on chip per core  
Secondary Cache: 4MB(I+D) on chip (per chip)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 x 2.0GB 667MHz FBDIMM ECC CL5  
Disk Subsystem: 1X 30GB Fujitsu MHS2030AT SATA HDD  
Other Hardware: N/A

### Software

Operating System: Windows server 2003 Enterprise Edition 32-bits W/ SP1  
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 177.mesa: -fast +FDO shlw32M.lib
Base tuning for 179.art: -fast +FDO shlw32M.lib
Base tuning for 183.quake: -fast +FDO shlw32M.lib
Base tuning for 188.amp: -fast +FDO shlw32M.lib
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
```



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## Notes/Tuning Information (Continued)

```
187.facerec: -fast -Qunroll11 -Qscalar_rep- +FDO
188.amp: -fast -Oa +FDO shlw32M.lib
189.lucas: -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
200.sixtrack: -Qipo -QxP +FDO
301.apsi: -fast +FDO
```

Tested systems can be used with SC825TQ-R700LPV case,  
To ensure system stability, a 550W (minimum) ATX power supply  
[4-pin (+12V), 8-pin (+12V) and 24-pin are required]

Product description located as of X7DB3:

<http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DB3.cfm>

The system bus runs at 1333 MHz