



# CFP2000 Result

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## Supermicro

Motherboard X6QT8( 3.5 GHz, Intel Xeon processor 7150N)

SPECfp\_rate2000 = 91.0

SPECfp\_rate\_base2000 = 90.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	16	325	91.3	16	324	91.7
171.swim	16	1340	42.9	16	1333	43.2
172.mgrid	16	800	41.8	16	796	42.0
173.applu	16	869	44.9	16	869	44.9
177.mesa	16	207	125	16	207	125
178.galgel	16	151	356	16	152	355
179.art	16	102	471	16	102	471
183.quake	16	436	55.3	16	418	57.7
187.facerec	16	307	115	16	317	111
188.amp	16	318	128	16	314	130
189.lucas	16	866	42.9	16	860	43.2
191.fma3d	16	729	53.5	16	729	53.5
200.sixtrack	16	279	73.2	16	275	74.1
301.apsi	16	411	117	16	407	119

### Hardware

CPU: Intel Xeon processor 7150N (3.5GHz, 667MHz system bus)  
CPU MHz: 3500  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1, 2, 3, 4 chips  
Parallel: No  
Primary Cache: 12 K I micro-ops + 16 KB D on chip per core  
Secondary Cache: 16 MB on chip per chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 32 GB (16x2048MB PC2-3200 ECC, Reg. CL3)  
Disk Subsystem: 1 X 74GB SCSI Hard Drive  
Other Hardware: N/A

### Software

Operating System: Windows Server 2003 Enterprise Edition 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
The system bus runs at 667 MHz
```