



CFP2000 Result

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Supermicro

Motherboard X7DBP-8(2.33GHz, Intel Xeon 5140 processor)

SPECfp_rate2000 = 70.5

SPECfp_rate_base2000 = 70.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	74.4	99.8	4	74.5	99.7
171.swim	4	291	49.4	4	292	49.2
172.mgrid	4	203	41.1	4	202	41.3
173.applu	4	198	49.2	4	198	49.2
177.mesa	4	67.4	96.4	4	67.4	96.4
178.galgel	4	66.9	201	4	66.9	201
179.art	4	63.2	191	4	63.2	191
183.quake	4	93.0	64.9	4	93.2	64.7
187.facerec	4	104	85.1	4	102	86.5
188.amp	4	167	61.0	4	162	63.0
189.lucas	4	185	50.1	4	185	50.1
191.fma3d	4	185	52.7	4	185	52.7
200.sixtrack	4	120	42.5	4	122	41.8
301.apsi	4	232	52.0	4	232	52.0

Hardware

CPU: Intel Xeon 5140 processor (2.33 GHz,1333MHz bus)
CPU MHz: 2330
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1, 2
Parallel: N/A
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: 4 X 2GB DDR2 ECC CL5 667MHz FBDIMM
Disk Subsystem: 1 X Seagate Barracuda 120GB 7200 RPM
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 SC816S-R700 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 <http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DBP-8.cfm>
The system bus runs at 1333 MHz