CFP2000 Result

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Supermicro

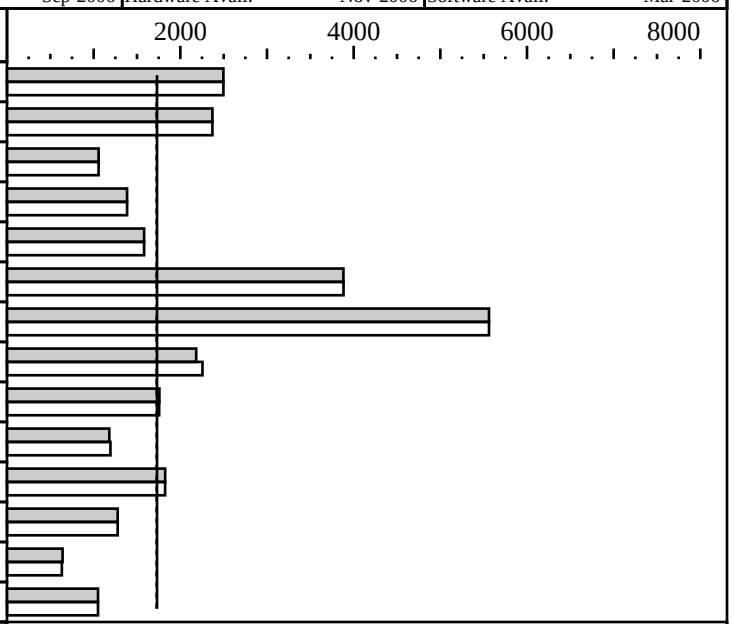
Motherboard X7DBR-8(1.60GHz, Intel Xeon E5310 processor)

SPECfp2000 = 1731

SPECfp_base2000 = 1727

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	64.1	2497	64.1	2497
171.swim	3100	131	2370	131	2370
172.mgrid	1800	170	1057	170	1057
173.applu	2100	152	1386	152	1386
177.mesa	1400	88.5	1582	88.5	1582
178.galgel	2900	74.7	3882	74.7	3883
179.art	2600	46.8	5561	46.8	5561
183.equake	1300	59.5	2183	57.6	2255
187.facerec	1900	108	1758	108	1756
188.ammp	2200	186	1180	184	1194
189.lucas	2000	110	1825	110	1824
191.fma3d	2100	164	1277	164	1277
200.sixtrack	1100	172	641	174	633
301.apsi	2600	248	1050	248	1050



Hardware

CPU:	Intel Xeon E5310 processor (1.60 GHz,1066MHz bus)
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chips
Parallel:	N/A
Primary Cache:	32KBI + 32KBD on chip per core
Secondary Cache:	8MB(I+D) on chip, per chip (4MB shared per 2 cores)
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8 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.equake:  -fast  +FDO shlW32M.lib
Base tuning for 188.ammp:  -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.equake:   -QxP -Oa -Qrcd -Qipo  +FDO  shlW32M.lib
```

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Notes/Tuning Information (Continued)

```
187.facerec:  -fast -Qunroll1 -Qscalar_rep- +FDO
188.ammp:     -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/X7DBR-8.cfm
     The system bus runs at 1066 MHz
     shlw32m-80.lib is the V8.0 SmartHeap library renamed to co-exist with older versions
```