



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Supermicro

Motherboard X7DB8(1.60GHz, Intel Xeon E5310 processor)

SPECfp2000 = 1713

SPECfp_base2000 = 1709

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	65.0	2462	65.0	2462	
171.swim	3100	133	2328	134	2319	
172.mgrid	1800	170	1056	170	1061	
173.applu	2100	154	1364	154	1364	
177.mesa	1400	91.7	1527	91.7	1527	
178.galgel	2900	74.9	3874	74.7	3881	
179.art	2600	47.0	5532	47.0	5532	
183.quake	1300	60.3	2157	58.2	2235	
187.facerec	1900	109	1749	109	1741	
188.amp	2200	187	1175	185	1190	
189.lucas	2000	110	1814	111	1810	
191.fma3d	2100	167	1261	167	1261	
200.sixtrack	1100	173	637	175	629	
301.apsi	2600	250	1041	250	1041	

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 chip
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.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
```



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Supermicro

Motherboard X7DB8(1.60GHz, Intel Xeon E5310 processor)

SPECfp2000 = 1713

SPECfp_base2000 = 1709

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

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/X7DB8.cfm>
The system bus runs at 1066 MHz
shlw32m-80.lib is the V8.0 SmartHeap library renamed to co-exist with older versions