



CINT2000 Result

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Supermicro

Motherboard X7DBX(1.60GHz, Intel Xeon E5310 processor)

SPECint2000 = 1714

SPECint_base2000 = 1711

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	140	997	140	1002	[Bar chart showing ratio 1002]			
175.vpr	1400	110	1268	108	1296	[Bar chart showing ratio 1296]			
176.gcc	1100	59.7	1844	59.7	1844	[Bar chart showing ratio 1844]			
181.mcf	1800	61.8	2913	61.8	2913	[Bar chart showing ratio 2913]			
186.crafty	1000	67.4	1484	67.6	1480	[Bar chart showing ratio 1480]			
197.parser	1800	143	1257	143	1255	[Bar chart showing ratio 1255]			
252.eon	1300	62.4	2084	62.0	2096	[Bar chart showing ratio 2096]			
253.perlbmk	1800	90.8	1983	90.9	1980	[Bar chart showing ratio 1980]			
254.gap	1100	63.6	1728	63.6	1728	[Bar chart showing ratio 1728]			
255.vortex	1900	65.2	2913	65.2	2913	[Bar chart showing ratio 2913]			
256.bzip2	1500	115	1300	116	1296	[Bar chart showing ratio 1296]			
300.twolf	3000	163	1839	163	1838	[Bar chart showing ratio 1838]			

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++ Compiler 9.1 for 32-bit applications
Build 20060323Z Package ID: W_CC_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 C programs: -fast +FDO shlw32M.lib
Base tuning for C++ programs: -fast -Qcxx_features +FDO shlw32M.lib
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafy: -DNT_i386
252.eon: -DHAS_ERRLIST
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip: -fast -Qansi_alias -Oa +FDO
175.vpr: -fast -Qansi_alias +FDO
176.gcc: basepeak=yes
181.mcf: basepeak=yes
186.crafty: -fast -Qansi_alias -Oa +FDO
197.parser: -fast -Qansi_alias +FDO
252.eon: -fast +FDO
253.perlbmk: -fast -Qansi_alias +FDO shlw32M.lib
254.gap: basepeak=yes
255.vortex: basepeak=yes
```



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Notes/Tuning Information (Continued)

256.bzip2: -fast -Oa -Qunroll11 +FDO

300.twolf: -fast -O3 +FDO shlw32M.lib

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/X7DBX.cfm>

The system bus runs at 1066 MHz

shlw32m-80.lib is the V8.0 SmartHeap library renamed to co-exist with older versions