



CINT2000 Result

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Supermicro

Motherboard X7DB8(1.86GHz, Intel Xeon E5320 processor)

SPECint_rate2000 = 146

SPECint_rate_base2000 = 146

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	127	102	8	126	103
175.vpr	8	124	105	8	122	106
176.gcc	8	63.4	161	8	63.4	161
181.mcf	8	156	107	8	156	107
186.crafty	8	58.0	160	8	58.0	160
197.parser	8	139	120	8	139	120
252.eon	8	53.7	225	8	53.3	226
253.perlbnk	8	82.6	202	8	82.7	202
254.gap	8	93.6	109	8	93.6	109
255.vortex	8	71.3	247	8	71.3	247
256.bzip2	8	126	110	8	127	110
300.twolf	8	141	198	8	141	198

Hardware

CPU: Intel Xeon E5320 processor (1.86 GHz,1066MHz bus)
CPU MHz: 1860
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1, 2 chips
Parallel: N/A
Primary Cache: 32KBI + 32KBD on chip per core
Secondary Cache: 8 MB I+D on chip, per chip (4 MB 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.crafty: -DNT_i386
252.eon: -DHAS_ERRLIST
253.perlbnk: -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.perlbnk: -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/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