



# CINT2000 Result

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## Supermicro

Motherboard X7DBX( 1.60GHz, Intel Xeon E5310 processor)

SPECint\_rate2000 = 131

SPECint\_rate\_base2000 = 131

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	147	88.4	8	146	88.9
175.vpr	8	136	95.3	8	134	96.9
176.gcc	8	70.3	145	8	70.3	145
181.mcf	8	159	105	8	159	105
186.crafty	8	67.5	137	8	67.7	137
197.parser	8	158	106	8	158	106
252.eon	8	62.3	194	8	62.3	194
253.perlbnk	8	95.4	175	8	95.5	175
254.gap	8	97.7	105	8	97.7	105
255.vortex	8	78.9	223	8	78.9	223
256.bzip2	8	142	97.7	8	142	98.0
300.twolf	8	165	169	8	165	169

### Hardware

CPU: Intel Xeon E5310 processor ( 1.60 GHz,1066MHz bus)  
CPU MHz: 1600  
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: 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.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/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