



# CINT2000 Result

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## Supermicro

Motherboard X7DBR-8( 1.86GHz, Intel Xeon E5320 processor)

SPECint2000 = 1969

SPECint\_base2000 = 1965

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	120	1163	120	1168				
175.vpr	1400	97.2	1440	95.0	1474				
176.gcc	1100	51.9	2120	51.9	2120				
181.mcf	1800	56.1	3211	56.1	3211				
186.crafty	1000	58.1	1721	58.1	1722				
197.parser	1800	124	1451	124	1448				
252.eon	1300	53.5	2431	53.3	2437				
253.perlbmk	1800	79.2	2273	79.3	2269				
254.gap	1100	55.7	1974	55.7	1974				
255.vortex	1900	57.4	3312	57.4	3312				
256.bzip2	1500	100	1497	100	1494				
300.twolf	3000	140	2146	140	2146				

### Hardware

CPU: Intel Xeon E5320 processor ( 1.86 GHz,1066MHz bus)  
CPU MHz: 1860  
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.crafty: -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/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