



# CINT2000 Result

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## Supermicro

Motherboard X7DB3 ( 3.00GHz, Intel Xeon 5160 processor)

SPECint\_rate2000 = 115

SPECint\_rate\_base2000 = 115

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	79.7	81.6	4	79.1	82.1
175.vpr	4	89.9	72.3	4	89.4	72.7
176.gcc	4	43.7	117	4	43.7	117
181.mcf	4	93.7	89.1	4	93.7	89.1
186.crafty	4	37.4	124	4	37.1	125
197.parser	4	89.9	92.9	4	89.8	93.1
252.eon	4	33.8	178	4	33.6	179
253.perlbnk	4	52.6	159	4	53.0	158
254.gap	4	47.9	107	4	47.9	107
255.vortex	4	47.2	187	4	47.2	187
256.bzip2	4	82.6	84.3	4	82.5	84.3
300.twolf	4	90.3	154	4	90.3	154

### Hardware

CPU: Intel Xeon 5160 processor ( 3.00 GHz, 4MB L2 shared, 1333 MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
CPU(s) orderable: 1, 2  
Parallel: No  
Primary Cache: 32KBI + 32KBD on chip per core  
Secondary Cache: 4MB(I+D) on chip (per chip)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 x 2.0GB 667MHz FBDIMM ECC CL5  
Disk Subsystem: 1X 30GB Fujitsu MHS2030AT SATA HDD  
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 -Qunroll1 +FDO  
300.twolf: -fast -O3 +FDO shlw32M.lib  
Tested systems can be used with SC825TQ-R700LPV case,  
To ensure system stability, a 550W (minimum) ATX power supply  
[4-pin (+12V), 8-pin (+12V) and 24-pin are required]  
Product description located as of X7DB3:  
<http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DB3.cfm>  
The system bus runs at 1333 MHz