



# CINT2000 Result

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## Supermicro

Motherboard X7DA8 ( 3.00GHz, Intel Xeon 5160 processor)

SPECint\_rate2000 = 119

SPECint\_rate\_base2000 = 119

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           | 77.8         | 83.5       | 4      | 77.6    | 83.7  |
| 175.vpr     | 4           | 85.1         | 76.3       | 4      | 84.0    | 77.4  |
| 176.gcc     | 4           | 39.6         | 129        | 4      | 39.6    | 129   |
| 181.mcf     | 4           | 86.6         | 96.4       | 4      | 86.6    | 96.4  |
| 186.crafty  | 4           | 36.2         | 128        | 4      | 36.3    | 128   |
| 197.parser  | 4           | 89.4         | 93.4       | 4      | 88.5    | 94.4  |
| 252.eon     | 4           | 33.2         | 181        | 4      | 33.1    | 182   |
| 253.perlbnk | 4           | 51.9         | 161        | 4      | 52.3    | 160   |
| 254.gap     | 4           | 46.5         | 110        | 4      | 46.5    | 110   |
| 255.vortex  | 4           | 45.9         | 192        | 4      | 45.9    | 192   |
| 256.bzip2   | 4           | 81.1         | 85.9       | 4      | 79.5    | 87.5  |
| 300.twolf   | 4           | 88.5         | 157        | 4      | 88.5    | 157   |

### 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 shared  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x 2GB 667MHz CL5 DDR2 FB-DIMM  
Disk Subsystem: 1 X WD 2500 250GB SATA  
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
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 SC825S2-R700LPV 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 X7DA8:  
<http://www.supermicro.com/products/motherboard/Xeon1333/5000X/X7DA8.cfm>  
The system bus runs at 1333 MHz