



# CINT2000 Result

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**Supermicro**  
X6DA8-G2 (3.40 GHz Xeon, 1MB L3 Cache)

SPECint\_rate2000 = 26.3  
SPECint\_rate\_base2000 = 24.6

SPEC license #01176 | Tested by: Supermicro Inc., San Jose, CA | Test date: Jun-2004 | Hardware Avail: May-2004 | Software Avail: Dec-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	143	22.8	2	140	23.1
175.vpr	2	204	15.9	2	204	15.9
176.gcc	2	87.0	29.3	2	87.0	29.3
181.mcf	2	249	16.7	2	238	17.5
186.crafy	2	97.9	23.7	2	93.0	24.9
197.parser	2	167	25.1	2	167	25.1
252.eon	2	97.3	31.0	2	72.1	41.8
253.perlbnk	2	137	30.4	2	125	33.4
254.gap	2	86.5	29.5	2	86.5	29.5
255.vortex	2	109	40.5	2	109	40.5
256.bzip2	2	178	19.6	2	179	19.5
300.twolf	2	328	21.2	2	246	28.2

### Hardware

CPU: Intel Xeon (3.4GHz 800 MHz system bus)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip(HT Technology enabled)  
CPU(s) orderable: 1, 2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 1024KB(I+D) on chip  
Other Cache: N/A  
Memory: 2 x 256MB ECC CL4 PC2 3200 DDRII SDRAM  
Disk Subsystem: 1 x 73GB U320 SCSI, 10K RPM  
Other Hardware:

### Software

Operating System: Windows 2003 Enterprise Server  
Compiler: Intel C/C++ Compiler 8.0 (20031229Z)  
Microsoft Visual Studio .NET (7.0.9466)  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### PORTABILITY FLAGS

176.gcc: -Dalloca=\_alloca /F10000000  
186.crafy: -DNT\_i386  
253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=yes

FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

### BASE TUNING

C: -QxN -Qipo -O3 +FDO  
C++: -QxN -Qipo -GX -GR

### PEAK TUNING

164.gzip: -QxN -Qipo -O3 -Oa +FDO  
175.vpr: basepeak=yes  
176.gcc: basepeak=yes  
181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib  
186.crafy: -QxN -Qipo -O3 -Oa +FDO shlw32M.lib  
197.parser: basepeak=yes  
252.eon: -QxN -Qipo -O3 +FDO  
253.perlbnk: -QxN -Qipo -O3 +FDO shlw32M.lib



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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    basepeak=yes
256.bzip2:    -Qipo      -Oa -Qunroll1 +FDO shlw32M.lib
300.twolf:    -QxN -Qipo -O3      +FDO shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib:  MicroQuill SmartHeap Library 7.1
              www.microquill.com
```