



# CINT2000 Result

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**Supermicro**  
X6DHR-8XG (3.40 GHz Xeon, 1MB L3 Cache)

SPECint\_rate2000 = 26.2  
SPECint\_rate\_base2000 = 24.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	160	20.3	2	136	23.8
175.vpr	2	230	14.1	2	230	14.1
176.gcc	2	87.8	29.1	2	87.8	29.1
181.mcf	2	333	12.5	2	313	13.3
186.crafy	2	89.0	26.1	2	91.8	25.3
197.parser	2	167	25.0	2	167	25.0
252.eon	2	90.5	33.3	2	74.5	40.5
253.perlbnk	2	131	31.9	2	123	33.8
254.gap	2	81.8	31.2	2	81.8	31.2
255.vortex	2	95.1	46.4	2	95.1	46.4
256.bzip2	2	194	17.9	2	184	18.9
300.twolf	2	346	20.1	2	209	33.3

### 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: 8 x 2048MB ECC CL2 PC 2100 DDR 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
```