



# CINT2000 Result

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**Supermicro**  
X6DHP-8G (3.60 GHz Xeon, 1MB L2 Cache)

SPECint\_rate2000 = 29.3  
SPECint\_rate\_base2000 = 28.8

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	130	25.0	2	131	24.8
175.vpr	2	180	18.1	2	180	18.1
176.gcc	2	71.1	35.9	2	71.1	35.9
181.mcf	2	251	16.7	2	261	16.0
186.crafy	2	77.9	29.8	2	88.7	26.2
197.parser	2	162	25.8	2	162	25.8
252.eon	2	75.0	40.2	2	72.9	41.4
253.perlbnk	2	119	35.1	2	118	35.4
254.gap	2	70.3	36.3	2	70.3	36.3
255.vortex	2	88.6	49.7	2	88.6	49.7
256.bzip2	2	162	21.5	2	157	22.2
300.twolf	2	244	28.6	2	179	38.9

### Hardware

CPU: Intel Xeon (3.6GHz, 800 MHz system bus)  
CPU MHz: 3600  
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 + 16KB(D) on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: None  
Other Cache: N/A  
Memory: 6 x 1024MB ECC CL2.5 PC 2700 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)  
MicroQuill SmartHeap Library 7.1  
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
```