



# CINT2000 Result

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SuperMicro  
Super P8SC8 (3.80 GHz Pentium 4)

SPECint\_rate2000 = 19.9

SPECint\_rate\_base2000 = 19.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	166	19.6	2	165	19.7
175.vpr	2	268	12.1	2	268	12.1
176.gcc	2	111	23.0	2	111	23.0
181.mcf	2	263	15.9	2	258	16.2
186.crafy	2	141	16.5	2	140	16.6
197.parser	2	209	20.0	2	209	20.0
252.eon	2	134	22.5	2	117	25.8
253.perlbnk	2	212	19.7	2	202	20.7
254.gap	2	100	25.4	2	100	25.4
255.vortex	2	133	33.1	2	133	33.1
256.bzip2	2	218	16.0	2	207	16.8
300.twolf	2	463	15.0	2	389	17.9

### Hardware

CPU: Intel Pentium 4 3.8GHz(800 MHz system bus)  
 CPU MHz: 3800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology Enabled)  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 16KB(D) on chip  
 Secondary Cache: 1024KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4 x 1024MB ECC DDR533 SDRAM  
 Disk Subsystem: 1 x 80GB ATA/100 7200 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 (for libraries)  
 SmartHeap Library Version 7.1 from <http://www.microquill.com/>  
 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.zip: -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
```