



# CINT2000 Result

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SuperMicro  
Super P8SC8 (3.80 GHz Pentium 4)

SPECint2000 = 1639  
SPECint\_base2000 = 1562

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

| Benchmark   | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip    | 1400           | 112          | 1253       | 112     | 1254  |  |
| 175.vpr     | 1400           | 132          | 1057       | 132     | 1057  |  |
| 176.gcc     | 1100           | 54.5         | 2017       | 54.5    | 2017  |  |
| 181.mcf     | 1800           | 137          | 1310       | 135     | 1335  |  |
| 186.crafty  | 1000           | 72.8         | 1374       | 70.8    | 1412  |  |
| 197.parser  | 1800           | 124          | 1449       | 124     | 1449  |  |
| 252.eon     | 1300           | 69.7         | 1865       | 59.4    | 2190  |  |
| 253.perlbmk | 1800           | 101          | 1781       | 91.2    | 1974  |  |
| 254.gap     | 1100           | 55.2         | 1992       | 55.2    | 1992  |  |
| 255.vortex  | 1900           | 71.5         | 2656       | 71.5    | 2656  |  |
| 256.bzip2   | 1500           | 130          | 1153       | 126     | 1189  |  |
| 300.twolf   | 3000           | 201          | 1494       | 158     | 1895  |  |

## 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.perlbmk: -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: -QxP -Qipo -O3 +FDO  
 C++: -QxP -Qipo -GX -GR

### PEAK TUNING

164.gzip: -QxP -Qipo -O3 -Oa +FDO  
 175.vpr: basepeak=yes  
 176.gcc: basepeak=yes  
 181.mcf: -QxP -Qipo -O3 +FDO shlw32M.lib  
 186.crafty: -QxP -Qipo -O3 -Oa +FDO shlw32M.lib  
 197.parser: basepeak=yes  
 252.eon: -QxP -Qipo -O3 +FDO  
 253.perlbmk: -QxP -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:    -QxP -Qipo -O3      +FDO shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 7.1
              www.microquill.com
```