



# CINT2000 Result

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**SuperMicro**  
P8SAA ( 3.6 GHz Pentium 4, 1MB L2 Cache)

SPECint\_rate2000 = 19.0  
SPECint\_rate\_base2000 = 18.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	175	18.6	2	175	18.6
175.vpr	2	277	11.7	2	276	11.8
176.gcc	2	117	21.7	2	119	21.5
181.mcf	2	272	15.4	2	272	15.4
186.crafty	2	144	16.1	2	144	16.1
197.parser	2	221	18.9	2	220	19.0
252.eon	2	143	21.1	2	123	24.6
253.perlbnk	2	227	18.4	2	213	19.6
254.gap	2	107	23.9	2	106	24.1
255.vortex	2	141	31.2	2	141	31.2
256.bzip2	2	226	15.4	2	215	16.2
300.twolf	2	480	14.5	2	409	17.0

### Hardware

CPU: Intel Pentium 4 ( 3.6 GHz, 800 MHz system bus)  
CPU MHz: 3600  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology Enabled)  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 12k micro-ops I + 16KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4 x 512MB PC 4300 DDR2 SDRAM  
Disk Subsystem: 1 x 200GB ATA133 IDE, 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

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -QxN -fast -Qansi_alias +FDO
Base tuning for C++ programs: -QxN -fast -GX -GR
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip: -QxN -fast -Qansi_alias -Oa +FDO
175.vpr: -QxN -fast -Qansi_alias +FDO
176.gcc: -QxN -fast -Qansi_alias +FDO
181.mcf: -QxN -fast -Qansi_alias +FDO
186.crafty: -QxN -fast -Qansi_alias -Oa +FDO
197.parser: -QxN -fast -Qansi_alias +FDO
252.eon: -QxN -O2 -Qipo +FDO
253.perlbnk: -QxN -fast -Qansi_alias +FDO shlw32M.lib
254.gap: -QxN -fast -Qunroll11 -Zp8 +FDO
255.vortex basepeak=yes
256.bzip2: -fast -Oa -Qunroll11 +FDO
```



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## Notes/Tuning Information (Continued)

300.twolf: -QxN -fast -O3 +FDO shlw32M.lib