



# CINT2000 Result

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

SPECint2000 = **1560**  
SPECint\_base2000 = **1490**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	118	1189	118	1189	
175.vpr	1400	137	1025	137	1024	
176.gcc	1100	57.1	1926	57.2	1922	
181.mcf	1800	144	1253	144	1254	
186.crafty	1000	75.9	1317	75.9	1317	
197.parser	1800	130	1379	131	1379	
252.eon	1300	73.7	1764	61.8	2102	
253.perlbmk	1800	106	1705	96.3	1869	
254.gap	1100	59.2	1859	58.1	1892	
255.vortex	1900	74.1	2563	74.1	2563	
256.bzip2	1500	135	1109	130	1150	
300.twolf	3000	213	1412	169	1773	

## 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.perlbmk: -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.perlbmk: -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