



# CINT2000 Result

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**ASUS Computer International**  
Asus M2N32-SLI Deluxe, AMD Athlon (TM) 64 5000+

SPECint\_rate2000 = 36.2  
SPECint\_rate\_base2000 = 34.1

SPEC license #: 13 Tested by: Intel Corporation Test date: Jul-2006 Hardware Avail: Jun-2006 Software Avail: Jun-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	97.9	33.2	2	97.9	33.2
175.vpr	2	136	23.8	2	133	24.3
176.gcc	2	71.5	35.7	2	71.0	35.9
181.mcf	2	203	20.6	2	179	23.3
186.crafty	2	60.0	38.7	2	54.4	42.6
197.parser	2	123	34.0	2	122	34.2
252.eon	2	56.9	53.0	2	46.0	65.6
253.perlbnk	2	107	38.9	2	107	38.9
254.gap	2	62.5	40.9	2	62.5	40.9
255.vortex	2	77.1	57.2	2	71.0	62.1
256.bzip2	2	130	26.7	2	129	26.9
300.twolf	2	272	25.6	2	234	29.7

### Hardware

CPU: AMD Athlon (TM) 64 5000+  
CPU MHz: 2600  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1  
Parallel: no  
Primary Cache: 64KBI + 64KBD on chip, per core  
Secondary Cache: 512KB (I+D) on chip, per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2x1 GB, Corsair CM2X1024-8500C5 DDR2-1066 5-5-15  
Disk Subsystem: SATA, Western Digital WD740GD, 10000 rpm  
Other Hardware: None

### Software

Operating System: Microsoft Windows XP SP2  
Compiler: Intel C++ Compiler 8.0 Build 20040318Z for IA32  
Microsoft Visual Studio .NET 7.0.9466 (libraries)  
MicroQuill Smartheap Library 8.0  
File System: NTFS  
System State: default

## Notes/Tuning Information

shlw32M-80.lib is the SmartHeap library V8.0 from MicroQuill [www.microquill.com](http://www.microquill.com)  
+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

Portability:

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

Baseline C: -fast -arch:SSE2 -Oi- +FDO

Baseline C++: -fast -arch:SSE2 -GX -GR

Peak Tuning:

164.gzip: basepeak=yes  
175.vpr: -fast -arch:SSE2 +FDO  
-Qoption,c,-ip\_ninl\_max\_stats=2000,-ip\_ninl\_max\_total\_stats=4500  
176.gcc: -fast -arch:SSE2 +FDO -Oi- -Qunroll3  
181.mcf: -fast -QaxN +FDO  
186.crafty: -fast -arch:SSE2 +FDO  
197.parser: -arch:SSE2 +FDO -Oi- -Qipo  
252.eon: -fast -arch:SSE2 -Qansi\_alias +FDO  
-Qoption,c,-ip\_ninl\_max\_stats=2000,-ip\_ninl\_max\_total\_stats=4500  
253.perlbnk: basepeak=yes



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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex:   -fast -arch:SSE -Oi-
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500 +FDO shlW32M-80.lib
256.bzip2:    -fast -Qunroll2
300.twolf:    -fast -arch:SSE2 -Qunroll3 -Qansi_alias +FDO shlW32M-80.lib
```

The system under test can be built with an ATI X1900 XTX graphics card and an ATX APE-300x power supply.