



# CINT2000 Result

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## Advanced Micro Devices

MSI K8N Neo2 Platinum Motherboard, AMD Athlon (TM) 64 FX-55

SPECint2000 = 1854

SPECint\_base2000 = 1750

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Sep-2004 Hardware Avail: Oct-2004 Software Avail: Jul-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	95.8	1461	95.8	1461	[Bar chart showing ratio 1461]			
175.vpr	1400	95.6	1465	92.3	1517	[Bar chart showing ratio 1517]			
176.gcc	1100	57.0	1931	56.9	1933	[Bar chart showing ratio 1933]			
181.mcf	1800	137	1313	113	1596	[Bar chart showing ratio 1596]			
186.crafty	1000	59.5	1679	53.8	1858	[Bar chart showing ratio 1858]			
197.parser	1800	109	1648	109	1656	[Bar chart showing ratio 1656]			
252.eon	1300	52.6	2470	46.2	2815	[Bar chart showing ratio 2815]			
253.perlbnk	1800	102	1757	102	1757	[Bar chart showing ratio 1757]			
254.gap	1100	59.9	1838	59.9	1838	[Bar chart showing ratio 1838]			
255.vortex	1900	71.7	2650	66.1	2874	[Bar chart showing ratio 2874]			
256.bzip2	1500	105	1427	103	1454	[Bar chart showing ratio 1454]			
300.twolf	3000	165	1823	145	2066	[Bar chart showing ratio 2066]			

### Hardware

CPU: AMD Athlon (TM) 64 FX-55 (ADAFX55DEI5AS)  
CPU MHz: 2600  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 64KBI + 64KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2x512 MB PC3200 DDR SDRAM CL2.0  
Disk Subsystem: SATA, Western Digital WD360  
Other Hardware: None

### Software

Operating System: Microsoft Windows XP Professional SP2  
Compiler: Intel C++ 8.0 build 20040611Z  
Microsoft Visual Studio .NET 7.0.9466 (libraries)  
MicroQuill Smartheap Library 7.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

shlw32M7.lib is the SmartHeap library V7.0 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 +FDO -Qansi\_alias  
-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 +FDO -Oi- shlw32M7.lib
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:    -fast -Qunroll2
300.twolf:    -fast -arch:SSE2 +FDO -Qunroll3 shlw32M7.lib -Qansi_alias
```

The tested system can be assembled using an ATX case such as the Antec P160, a 550W power supply such as the Antec True Power 550, and a PCI or AGP video card.

BIOS rev. V1.2 082604

High Performance Defaults set in BIOS

Memory timings manually set in BIOS: CAS=2.0, TRCD=2, TRAS=5, TRP=2

Dynamic Overclocking Disabled in BIOS

Memory used is Corsair CMX512-3200XLPPO

Memory is configured in dual channel mode