



# CINT2000 Result

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## Advanced Micro Devices

MSI K8T Neo2-FIR (MS-6702E) Motherboard, AMD Athlon (TM) 64 FX-53

SPECint2000 = 1700

SPECint\_base2000 = 1601

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Jun-2004 Hardware Avail: Jun-2004 Software Avail: Feb-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	105	1329	104	1340	
175.vpr	1400	104	1351	99.7	1404	
176.gcc	1100	61.3	1794	61.7	1784	
181.mcf	1800	150	1200	120	1497	
186.crafty	1000	63.8	1567	58.3	1716	
197.parser	1800	120	1504	118	1519	
252.eon	1300	60.5	2149	50.2	2591	
253.perlbnk	1800	119	1514	108	1672	
254.gap	1100	65.1	1689	63.8	1725	
255.vortex	1900	74.1	2565	76.8	2474	
256.bzip2	1500	113	1322	112	1343	
300.twolf	3000	179	1673	168	1789	

### Hardware

CPU: AMD Athlon (TM) 64 FX-53 (ADAFX53DEP5AS)  
CPU MHz: 2400  
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 SP1a  
Compiler: Intel C++ 8.0 build 20031229Z  
Microsoft Visual Studio .NET 7.0.9466 (libraries)  
MicroQuill Smartheap Library 6.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

Tested by AMD

shlW32M6.lib is the SmartHeap library V6.0 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: -fast -arch:SSE +FDO shlW32M6.lib  
175.vpr: -fast -arch:SSE2 +FDO  
-Qoption,c,-ip\_ninl\_max\_stats=2000 -Qoption,c,-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 -Qoption,c,-ip\_ninl\_max\_total\_stats=4500



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## Notes/Tuning Information (Continued)

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253.perlbnk:      -arch:SSE2 +FDO      -Qipo shlw32M6.lib
254.gap:          -fast -arch:SSE2 +FDO -Oi- -Oa
                  -Qoption,c,-ip_ninl_max_stats=500 -Qoption,c,-ip_ninl_max_total_stats=3000
255.vortex:      -fast -arch:SSE  +FDO -Oi- shlw32M6.lib
                  -Qoption,c,-ip_ninl_max_stats=2000 -Qoption,c,-ip_ninl_max_total_stats=4500
256.bzip2:       -fast                                     -Qunroll2
300.twolf:       -fast -arch:SSE2 +FDO      -Qunroll3 shlw32M6.lib -Qansi_alias
BIOS rev. V3.0B10
High Performance Defaults set in BIOS
Memory timings manually set in BIOS: CAS=2.0, TRCD = 3, TRAS = 5, TRP = 3
Dynamic Overclocking Disabled in BIOS
Memory used is Corsair CMX512-3200LL
Memory configured in dual channel mode

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