



CINT2000 Result

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Advanced Micro Devices

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

SPECint2000 = 1717

SPECint_base2000 = 1623

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	104	1349	104	1349	[Bar chart]			
175.vpr	1400	102	1372	98.7	1419	[Bar chart]			
176.gcc	1100	62.1	1772	62.0	1773	[Bar chart]			
181.mcf	1800	146	1236	118	1524	[Bar chart]			
186.crafty	1000	64.5	1550	58.5	1708	[Bar chart]			
197.parser	1800	119	1516	118	1522	[Bar chart]			
252.eon	1300	56.4	2303	49.9	2605	[Bar chart]			
253.perlbnk	1800	112	1614	112	1614	[Bar chart]			
254.gap	1100	65.2	1688	65.2	1688	[Bar chart]			
255.vortex	1900	76.0	2498	71.6	2653	[Bar chart]			
256.bzip2	1500	112	1334	110	1366	[Bar chart]			
300.twolf	3000	179	1677	157	1906	[Bar chart]			

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 CL2
Disk Subsystem: SATA, Western Digital WD360
Other Hardware: None

Software

Operating System: Microsoft Windows XP Professional SP1a
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
+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 KS-282, a 480W power supply such as the Antec True Power 480, and a PCI or AGP video card.

BIOS rev. V3.0

High Performance Settings set to "Optimized" in BIOS

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

Dynamic Overclocking Disabled in BIOS

Memory used: Corsair CMX512-3200XLPRO

Memory configured in dual channel mode