# CINT2000 Result

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## Advanced Micro Devices

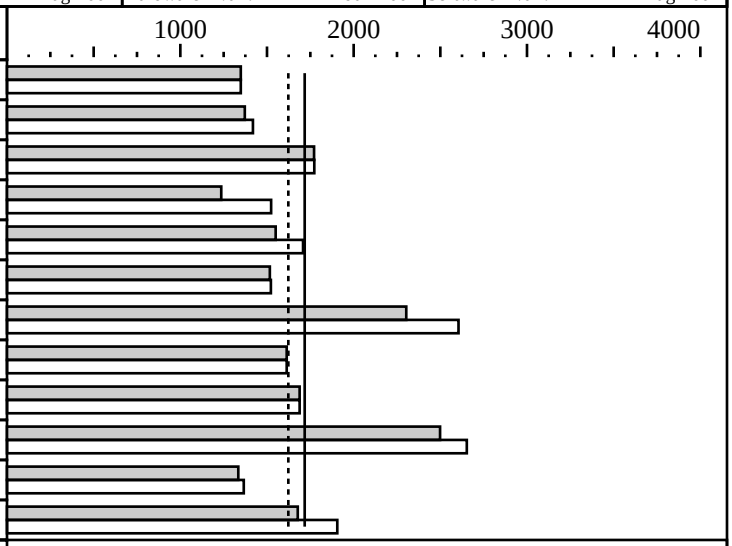
MSI K8T Neo2-FIR (MS-6702E) Motherboard, AMD Athlon (TM) 64 FX-53

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




### 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<br>Microsoft Visual Studio .NET 7.0.9466 (libraries)<br>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.perlbmk:  -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.perlbmk:  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
```