



CFP2000 Result

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Advanced Micro Devices

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

SPECfp2000 = 1634

SPECfp_base2000 = 1595

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	
168.wupwise	1600	66.6	2402	66.6	2402	
171.swim	3100	139	2224	139	2236	
172.mgrid	1800	137	1314	137	1314	
173.applu	2100	154	1363	154	1363	
177.mesa	1400	79.0	1771	74.4	1881	
178.galgel	2900	113	2573	107	2702	
179.art	2600	137	1905	137	1903	
183.quake	1300	82.7	1572	82.7	1572	
187.facerec	1900	111	1708	111	1708	
188.amp	2200	177	1241	168	1313	
189.lucas	2000	111	1810	104	1927	
191.fma3d	2100	157	1339	141	1493	
200.sixtrack	1100	151	728	151	728	
301.apsi	2600	185	1409	184	1415	

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, Intel Fortran 8.0 build 20040519Z, PGI Fortran compiler 5.2-1 for Windows XP, AMD Core Math library Version 2.0 (ACML), Microsoft Visual Studio .NET 7.0.9466 (libraries), MicroQuill Smartheap Library 7.0
File System: NTFS
System State: Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
+ACML is the AMD Core Math Library V2.0
ONESTEP is set for all peak runs.
ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
pgf90 is the PGI Fortran compiler.
Portability:
  178.galgel: -Mfixed
Baseline: C      : icl  -fast -arch:SSE2 -QaxW +FDO
Baseline: Fortran: pgf90 -fastsse -Mipa=fast,inline
Peak tuning:
168.wupwise:      pgf90 basepeak=yes
171.swim:         ifort      -O3          -QxW  +FDO
172.mgrid:       pgf90 basepeak=yes
173.applu:       pgf90 basepeak=yes
177.mesa:        icl    -Qipo -arch:SSE2      +FDO -Qunroll1 -Qansi_alias
                  -Qoption,f,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
179.art:         icl    -Qipo          -Zp4  +FDO
```



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Notes/Tuning Information (Continued)

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183.equake:      icl   basepeak=yes
178.galgel:      pgf90 -fastsse -Mipa=fast,safe -mp RM_SOURCES=lapak.f90 -Munix +ACML
187.facerec:     pgf90 basepeak=yes
188.ampp:        icl   -Oa   -arch:SSE2 -Zp4           -Qansi_alias
189.lucas:        ifort  -QxW           -Qunroll1
191.fma3d:        ifort -fast           -QxW   +FDO -Qscalar_rep-
                  -Qoption,f,-ip_ninl_max_stats=1000,-ip_ninl_max_total_stats=3500
200.sixtrack:    pgf90 basepeak=yes
301.apsi:        pgf90 -fastsse -Mipa=fast,align

```

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