



# CFP2000 Result

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## Advanced Micro Devices

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

SPECfp2000 = 1597

SPECfp\_base2000 = 1504

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	
168.wupwise	1600	96.6	1657	79.7	2007	
171.swim	3100	147	2114	140	2213	
172.mgrid	1800	137	1315	137	1315	
173.applu	2100	167	1254	160	1316	
177.mesa	1400	78.9	1775	74.5	1880	
178.galgel	2900	118	2448	113	2561	
179.art	2600	138	1890	137	1898	
183.quake	1300	83.4	1559	83.4	1558	
187.facerec	1900	117	1622	102	1860	
188.amp	2200	179	1232	174	1267	
189.lucas	2000	116	1720	106	1882	
191.fma3d	2100	159	1317	144	1457	
200.sixtrack	1100	154	714	154	714	
301.apsi	2600	206	1263	187	1391	

### 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, Intel Fortran 8.0 build 20031017Z, PGI Fortran compiler 5.1-3 for Windows XP, AMD Core Math library Version 2.0 (ACML), 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

```
+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
Peak tuning:
168.wupwise:    pgf90 -fastsse -Mipa=fast -Minline=levels:2
171.swim:       ifort -O3 -QxW +FDO
172.mgrid:      pgf90 basepeak=yes
177.mesa:       icl -Qipo -arch:SSE2 +FDO -Qunroll1 -Qansi_alias
                -Qoption,f,-ip_ninl_max_stats=1500 -Qoption,f,-ip_ninl_max_total_stats=4500
178.galgel:     pgf90 -fastsse -O3 RM_SOURCES=lapak.f90 -Munix +ACML
```



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### Notes/Tuning Information (Continued)

```

179.art:          icl   -Qipo          -Zp4  +FDO
183.quake:       icl   -fast -arch:SSE2 -QaxW +FDO -Qansi_alias
187.facerec:     ifort -fast          -QxW  +FDO
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 -Qoption,f,-ip_ninl_max_total_stats=3500
200.sixtrack:    pgf90 basepeak=yes
301.apsi:        ifort -fast          -QxW  +FDO

```

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 is configured in dual channel mode