



CFP2000 Result

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Advanced Micro Devices

MSI K8N Neo2 Platinum Motherboard, AMD Athlon (TM) 64 FX-55

SPECfp2000 = 1782

SPECfp_base2000 = 1741

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Sep-2004 Hardware Avail: Oct-2004 Software Avail: Jul-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	60.9	2628	60.9	2628	[Bar chart showing ratio 2628]			
171.swim	3100	124	2503	125	2481	[Bar chart showing ratio 2481]			
172.mgrid	1800	125	1443	125	1443	[Bar chart showing ratio 1443]			
173.applu	2100	143	1466	143	1466	[Bar chart showing ratio 1466]			
177.mesa	1400	73.3	1910	68.5	2045	[Bar chart showing ratio 2045]			
178.galgel	2900	104	2785	98.7	2937	[Bar chart showing ratio 2937]			
179.art	2600	127	2041	126	2062	[Bar chart showing ratio 2062]			
183.quake	1300	74.6	1742	74.6	1742	[Bar chart showing ratio 1742]			
187.facerec	1900	101	1882	101	1882	[Bar chart showing ratio 1882]			
188.amp	2200	161	1365	153	1433	[Bar chart showing ratio 1433]			
189.lucas	2000	104	1925	97.0	2062	[Bar chart showing ratio 2062]			
191.fma3d	2100	140	1502	129	1632	[Bar chart showing ratio 1632]			
200.sixtrack	1100	139	791	139	791	[Bar chart showing ratio 791]			
301.apsi	2600	171	1519	171	1525	[Bar chart showing ratio 1525]			

Hardware

CPU: AMD Athlon (TM) 64 FX-55 (ADAFX55DEI5AS)
CPU MHz: 2600
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 SP2
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.ammf:       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 P160, a 550W power supply such as the Antec True Power 550, and a PCI or AGP video card. BIOS rev. V1.2 082604

High Performance Defaults set in BIOS

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

Dynamic Overclocking Disabled in BIOS

Memory used is Corsair CMX512-3200XLPRO

Memory is configured in dual channel mode