CFP2000 Result

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Advanced Micro Devices

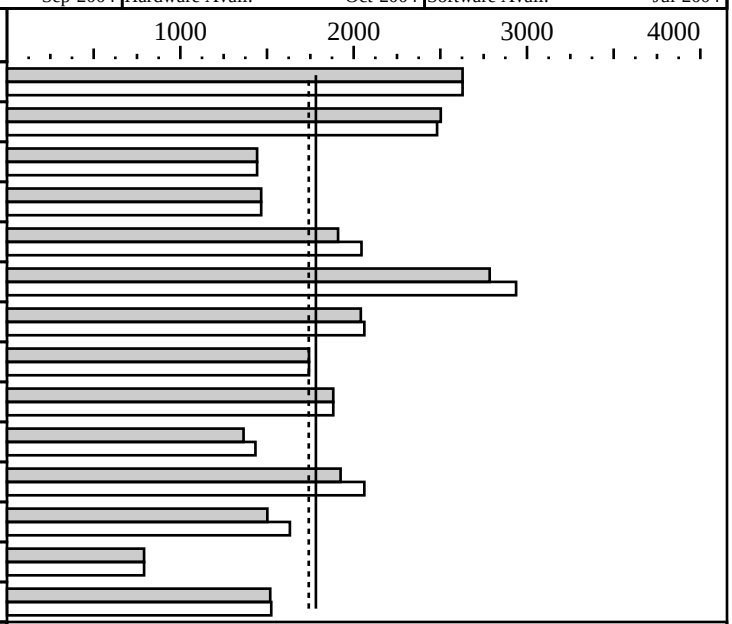
MSI K8N Neo2 Platinum Motherboard, AMD Athlon (TM) 64 FX-55

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
168.wupwise	1600	60.9	2628	60.9	2628
171.swim	3100	124	2503	125	2481
172.mgrid	1800	125	1443	125	1443
173.applu	2100	143	1466	143	1466
177.mesa	1400	73.3	1910	68.5	2045
178.galgel	2900	104	2785	98.7	2937
179.art	2600	127	2041	126	2062
183.equake	1300	74.6	1742	74.6	1742
187.facerec	1900	101	1882	101	1882
188.ammp	2200	161	1365	153	1433
189.lucas	2000	104	1925	97.0	2062
191.fma3d	2100	140	1502	129	1632
200.sixtrack	1100	139	791	139	791
301.apsi	2600	171	1519	171	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)

```
 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.ammp:          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
```