CFP2000 Result

Advanced Micro Devices

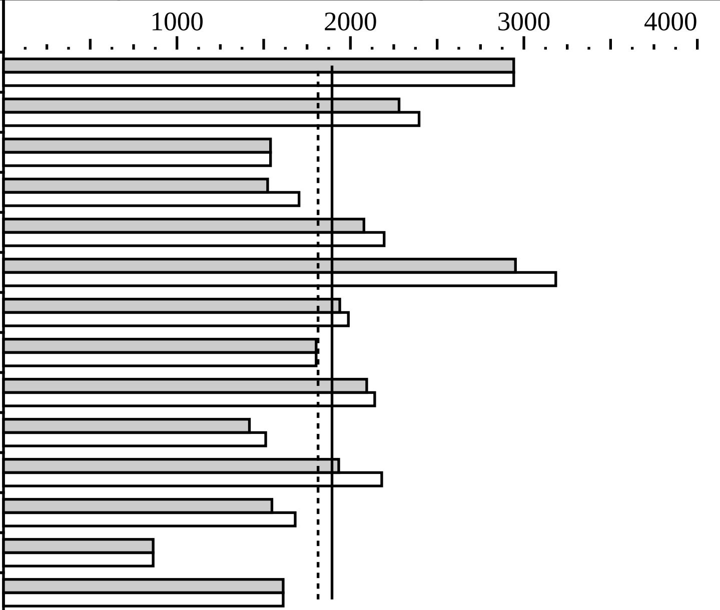
ASUS A8N-SLI Deluxe, AMD Athlon (TM) 64 FX-57

SPECfp2000 = 1894

SPECfp_base2000 = 1814

SPEC license #: 49	Tested by: AMD, Austin, TX	Test date: Jun-2005	Hardware Avail: Jun-2005	Software Avail: Jan-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	54.4	2942	54.4	2942
171.swim	3100	136	2280	129	2396
172.mgrid	1800	117	1539	117	1539
173.applu	2100	138	1523	123	1704
177.mesa	1400	67.4	2078	63.8	2194
178.galgel	2900	98.3	2952	91.1	3184
179.art	2600	134	1939	131	1988
183.equake	1300	72.1	1802	72.1	1802
187.facerec	1900	90.7	2094	88.8	2140
188.ammp	2200	155	1418	146	1512
189.lucas	2000	103	1933	91.7	2181
191.fma3d	2100	136	1547	125	1682
200.sixtrack	1100	127	863	127	863
301.apsi	2600	161	1612	161	1612



Hardware

CPU:	AMD Athlon (TM) 64 FX-57
CPU MHz:	2800
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 WD740
Other Hardware:	None

Software

Operating System:	Microsoft Windows XP Pro SP2
Compiler:	Intel C++ 8.0 build 20040714Z, Intel Fortran 8.1 build 20041019Z, PGI Fortran compiler 5.2-4 for Windows XP, AMD Core Math library Version 2.1 (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 linking with AMD Core Math Library V2.1
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.
The Intel C++ 8.0 and the Intel Fortran 8.1 compilers are setup in the following order:
   "c:program filesintel ortrancompiler80ia32 inifortvars.bat"
   "c:program filesintelcppcompiler80ia32 iniclvars.bat"
To make sure that the correct libraries are selected, the following link option is
added for the peak runs where Intel Fortran 8.1 compiler is used:
    LDOPT = -Fe$@ -link -LIBPATH:"c:program filesintel ortrancompiler80ia32lib"
 (denoted by +LIBPATH:INTEL8.1 in the optimization flags listed below)
Portability:
  178.galgel: -Mfixed
Baseline: C      : icl   -fast -arch:SSE2 -QaxW +FDO
Baseline: Fortran: pgf90 -fastsse -Mipa=fast,inline
Peak tuning:
```

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Notes/Tuning Information (Continued)

```
 168.wupwise:      pgf90 basepeak=yes
 171.swim:        ifort -Qipo  -O3  -QaxN -QxW +FDO -Qunroll0     +LIBPATH:INTEL8.1
 172.mgrid:        pgf90 basepeak=yes
 173.applu:       ifort -Qipo  -O3  -QaxN -QxW +FDO -auto         +LIBPATH:INTEL8.1
 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
 183.equake:       icl   basepeak=yes
 178.galgel:       pgf90 -fastsse -Mipa=fast,safe RM_SOURCES=lapak.f90 -Munix +ACML
 187.facerec:     ifort -Qipo             -QxW +FDO -Qunroll3     +LIBPATH:INTEL8.1
                       -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
 188.ammp:         icl   -Oa   -arch:SSE2  -Zp4      -Qansi_alias
 189.lucas:       ifort -Qipo             -QxW      -Qunroll1     +LIBPATH:INTEL8.1
 191.fma3d:       ifort -Qipo       -QaxN -QxW +FDO -Qansi-alias- +LIBPATH:INTEL8.1
 200.sixtrack:     pgf90 basepeak=yes
 301.apsi:         pgf90 basepeak=yes
The tested system can be assembled using a standard ATX form factor, an Antec True 550
EPS12V power supply, and a PCI or PCIe graphics card.
Memory timings manually set in BIOS: CAS=2, TRCD=2, TRAS=5, TRP=2
Memory used is Corsair CMX512-3200XLPRO configured in dual channel mode.
BIOS version V6.00PG
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