CFP2000 Result

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Advanced Micro Devices

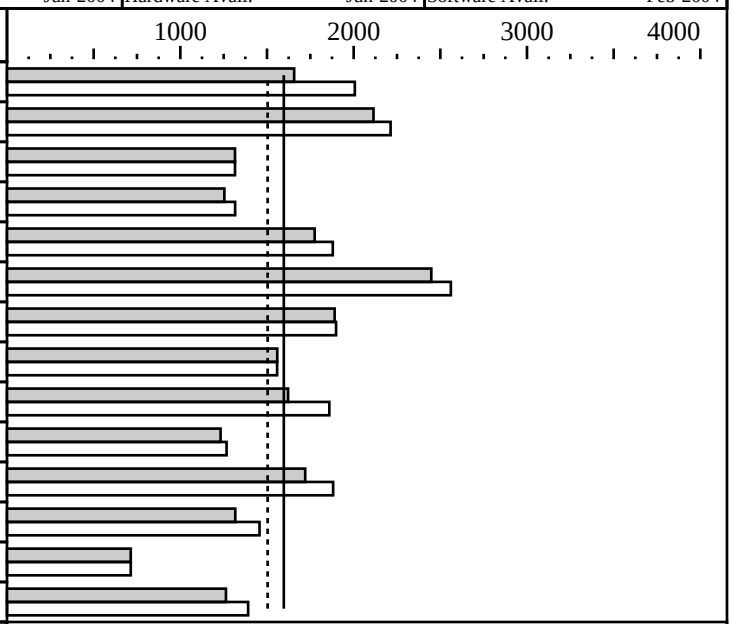
MSI K8T Neo2-FIR (MS-6702E) Motherboard, AMD Athlon (TM) 64 FX-53

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.equake	1300	83.4	1559	83.4	1558
187.facerec	1900	117	1622	102	1860
188.ammp	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

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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)

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 179.art:          icl   -Qipo            -Zp4  +FDO
 183.equake:       icl   -fast -arch:SSE2 -QaxW +FDO -Qansi_alias
 187.facerec:      ifort -fast            -QxW  +FDO
 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 -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
```