CFP2000 Result

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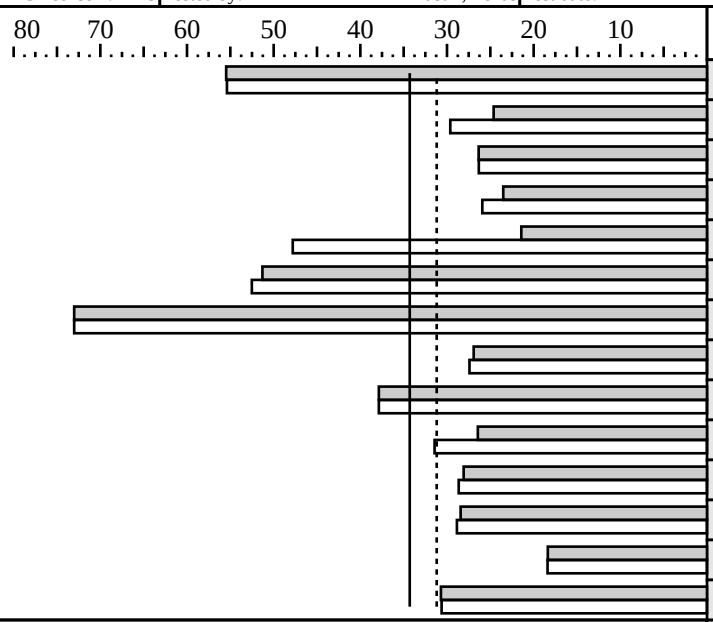
Velocity Micro

Gamer's Edge DualX, AMD Athlon(TM) 64 FX-60

SPECfp_rate2000 = 34.3

SPECfp_rate_base2000 = 31.2

SPEC license #: 49 | Tested by: AMD Austin, Texas | Test date: Feb-2006 | Hardware Avail: Feb-2006 | Software Avail: Oct-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	66.9	55.5	2	67.0	55.4
171.swim	2	292	24.6	2	243	29.6
172.mgrid	2	159	26.3	2	159	26.3
173.applu	2	207	23.5	2	188	25.9
177.mesa	2	152	21.4	2	68.0	47.8
178.galgel	2	131	51.3	2	128	52.5
179.art	2	82.6	73.0	2	82.6	73.0
183.equake	2	112	26.9	2	110	27.4
187.facerec	2	116	37.9	2	116	37.9
188.ammp	2	193	26.4	2	162	31.4
189.lucas	2	165	28.1	2	162	28.6
191.fma3d	2	171	28.4	2	169	28.9
200.sixtrack	2	139	18.4	2	139	18.4
301.apsi	2	196	30.7	2	197	30.6

Hardware

CPU:	AMD Athlon(TM) 64 FX-60 (939-pin)
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1
Parallel:	no
Primary Cache:	64KBI + 64KBD (on chip) per core
Secondary Cache:	1024KB (I+D) (on chip) per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	2x512MB, Mushkin DDR400 CL2
Disk Subsystem:	SATA, 232 GB
Other Hardware:	None

Software

Operating System:	Microsoft Windows XP Home Edition SP2
Compiler:	Intel C++ 9.0 build 20050912Z for IA32, Intel Fortran 9.0 build 20050912Z for IA32, Microsoft Visual Studio .NET 7.0.9466 (libraries) PGI Fortran compiler 6.0-5 for Windows XP, PGI C compiler 6.0-5 for Windows XP, ACML Version 2.5.3 (bundled with PGI 6.0-5)
File System:	NTFS
System State:	default

Notes/Tuning Information

```
Tested by Advanced Micro Devices
  +FDO:
   icl, ifort  : PASS1=-Qprof_gen  PASS2=-Qprof_use
   pgf90       : PASS1=-Mpfi       PASS2=-Mpfo
  ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
  pgf90 is the PGI Fortran 90 compiler.
  pgcc is the PGI C compiler.
  ONESTEP is set to 1 for every compile with the PGI compilers.
  Portability:
  178.galgel:                -Mfixed
  Baseline: C      :  pgcc    -fastsse -Mipa=fast,inline
  Baseline: Fortran:  pgf90   -fastsse -Mipa=fast,inline +FDO
  Peak tuning:
  168.wupwise:        pgf90   -fastsse -Mipa=fast,inline -Mnovect
  171.swim:           ifort   -Qipo  -O3  -QaxN -QxW -Qunroll0 +FDO
  172.mgrid:          pgf90   -fastsse -Mipa=fast,inline
  173.applu:          ifort   -Qipo  -O3 -QaxN -QxW -auto +FDO
```

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Notes/Tuning Information (Continued)

```
 177.mesa:           icl     -Qipo -QxW -Qunroll1 -Qansi_alias +FDO
                          -Qoption,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
 178.galgel:         pgf90   -fastsse -Mipa=fast,safe -Munix -lacml
                             RM_SOURCES=lapak.f90
 179.art:            pgcc     basepeak=yes
 183.equake:         icl     -O3 -Qipo -QxW +FDO
 187.facerec:        pgf90   basepeak=1
 188.ammp:           icl     -Oa   -QxW  -Zp4 -Qansi_alias
 189.lucas:          ifort   -Qipo -QxW -Qunroll1
 191.fma3d:          pgf90   -Mipa=fast,inline -fastsse -Mnovect +FDO
 200.sixtrack:       pgf90   -fastsse -Mipa=fast,inline
 301.apsi:           pgf90   -fastsse -Mipa=fast,inline
Mushkin HP3200 memory used in Dual Channel configuration.
Memory timings manually set in BIOS: CAS=2, Trc=12, 1T/2T Memory Timings=1T
BIOS rev 1014
```