CFP2000 Result

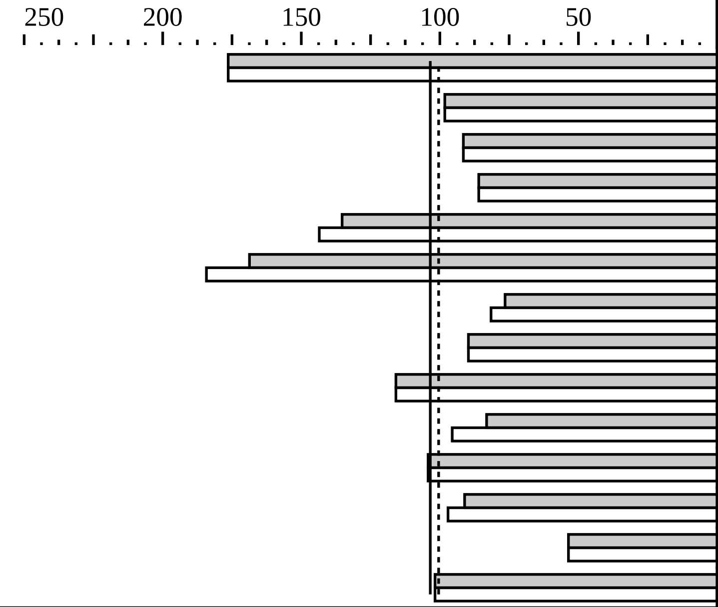
Advanced Micro Devices

Pogo Linux PerformanceWare 3566, AMD Opteron (TM) 870

SPECfp_rate2000 = 103

SPECfp_rate_base2000 = 100

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	84.2	176	8	84.2	176
171.swim	8	293	98.2	8	293	98.2
172.mgrid	8	183	91.5	8	183	91.5
173.applu	8	227	86.0	8	227	86.0
177.mesa	8	96.0	135	8	90.5	144
178.galgel	8	160	169	8	146	184
179.art	8	316	76.5	8	296	81.5
183.equake	8	135	89.7	8	135	89.7
187.facerec	8	152	116	8	152	116
188.ammp	8	246	83.1	8	214	95.5
189.lucas	8	178	104	8	178	104
191.fma3d	8	214	91.1	8	201	97.1
200.sixtrack	8	190	53.6	8	190	53.6
301.apsi	8	237	102	8	237	102

Hardware

CPU:	AMD Opteron (TM) 870
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 4 chips, 2 cores/chip
CPU(s) orderable:	1-4
Parallel:	No
Primary Cache:	64KBI + 64KBD/core
Secondary Cache:	1024KB (I+D)/core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	16x1024 MB PC3200 CL3.0 ECC Reg
Disk Subsystem:	SCSI, Seagate Cheetah Ultra320 ST373307LC, 10000 RPM
Other Hardware:	None

Software

Operating System:	Microsoft Windows Server 2003 Enterprise Edition SP1
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
```

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Notes/Tuning Information (Continued)

```
 Peak tuning:
 168.wupwise:       pgf90 basepeak=yes
 171.swim:          basepeak=yes
 172.mgrid:         pgf90 basepeak=yes
 173.applu:         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
 183.equake:        icl   basepeak=yes
 178.galgel:        pgf90 -fastsse -Mipa=fast,safe RM_SOURCES=lapak.f90 -Munix +ACML
 187.facerec:       basepeak=yes
 188.ammp:          icl   -Oa   -arch:SSE2  -Zp4      -Qansi_alias
 189.lucas:         basepeak=yes
 191.fma3d:         ifort -Qipo       -QaxN -QxW +FDO -Qansi-alias- +LIBPATH:INTEL8.1
 200.sixtrack:      pgf90 basepeak=yes
 301.apsi:          pgf90 basepeak=yes
Bios Rev 2.33.1.1
All memory slots populated on all CPU(s).
Physical Address Extension (PAE) enabled.
The start /b /wait /affinity command is used to bind CPU(s) to processes.
```