CFP2000 Result

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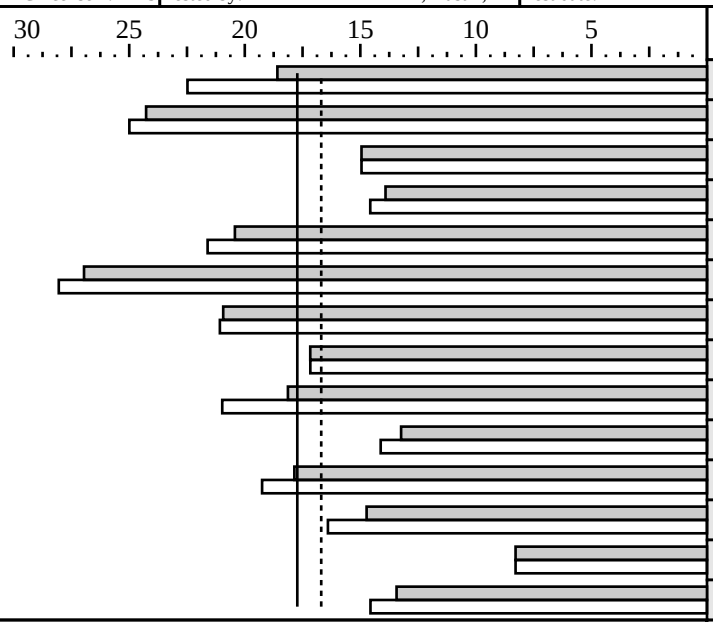
Advanced Micro Devices

ASUS SK8V Motherboard, AMD Opteron (TM)150

SPECfp_rate2000 = 17.7

SPECfp_rate_base2000 = 16.7

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: May-2004 | Hardware Avail: Jun-2004 | Software Avail: Apr-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	99.8	18.6	1	82.6	22.5
171.swim	1	148	24.3	1	144	25.0
172.mgrid	1	140	14.9	1	140	14.9
173.applu	1	175	13.9	1	167	14.6
177.mesa	1	79.5	20.4	1	75.2	21.6
178.galgel	1	125	27.0	1	120	28.0
179.art	1	144	20.9	1	143	21.1
183.equake	1	87.8	17.2	1	87.9	17.2
187.facerec	1	122	18.1	1	105	21.0
188.ammp	1	193	13.2	1	181	14.1
189.lucas	1	130	17.9	1	121	19.3
191.fma3d	1	165	14.7	1	149	16.4
200.sixtrack	1	154	8.28	1	154	8.28
301.apsi	1	225	13.4	1	207	14.6

Hardware

CPU:	AMD Opteron (TM) 150
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 ECC Reg CL2
Disk Subsystem:	SATA, Western Digital WD360GD
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
  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
  179.art:           icl   -Qipo            -Zp4  +FDO
```

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Notes/Tuning Information (Continued)

```
 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
The tested system can be assembled using an ATX case such as the Antec KS-282,
a 480W power supply, such as the Antec True Power 480 and a PCI or AGP video card.
BIOS rev.: 1001
Memory used is Corsair CMX512R-3200C2
Cas Latency manually set to 2.0 in BIOS
```