



CFP2000 Result

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Advanced Micro Devices
ASUS SK8V Motherboard, AMD Opteron (TM) 150

SPECfp2000 = 1528
SPECfp_base2000 = 1439

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	99.8	1603	82.6	1938	[Bar chart showing ratio 1938]			
171.swim	3100	148	2092	144	2155	[Bar chart showing ratio 2155]			
172.mgrid	1800	140	1289	140	1289	[Bar chart showing ratio 1289]			
173.applu	2100	175	1199	167	1256	[Bar chart showing ratio 1256]			
177.mesa	1400	79.5	1761	75.2	1863	[Bar chart showing ratio 1863]			
178.galgel	2900	125	2324	120	2418	[Bar chart showing ratio 2418]			
179.art	2600	144	1805	143	1817	[Bar chart showing ratio 1817]			
183.quake	1300	87.8	1480	87.9	1480	[Bar chart showing ratio 1480]			
187.facerec	1900	122	1563	105	1808	[Bar chart showing ratio 1808]			
188.amp	2200	193	1141	181	1217	[Bar chart showing ratio 1217]			
189.lucas	2000	130	1539	121	1660	[Bar chart showing ratio 1660]			
191.fma3d	2100	165	1270	149	1414	[Bar chart showing ratio 1414]			
200.sixtrack	1100	154	714	154	714	[Bar chart showing ratio 714]			
301.apsi	2600	225	1158	207	1255	[Bar chart showing ratio 1255]			

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

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)

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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