CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices

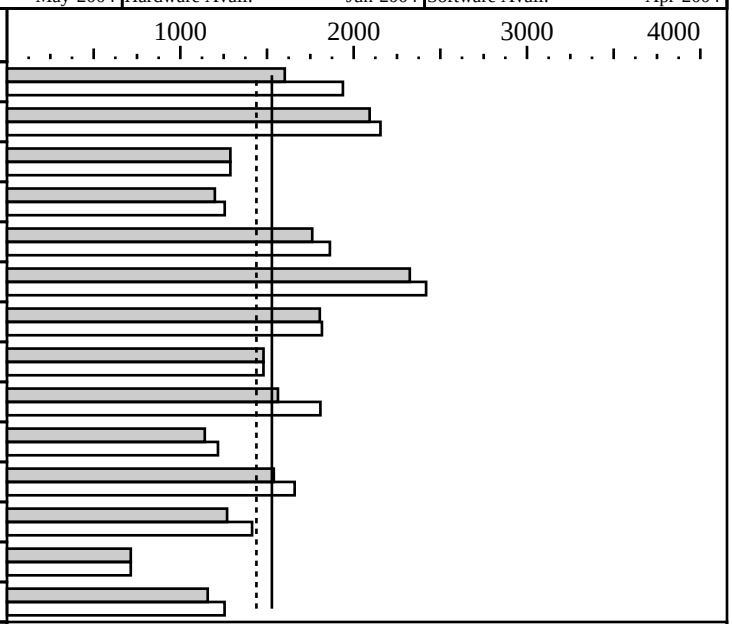
ASUS SK8V Motherboard, AMD Opteron (TM) 150

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

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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
```