CFP2000 Result

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Advanced Micro Devices

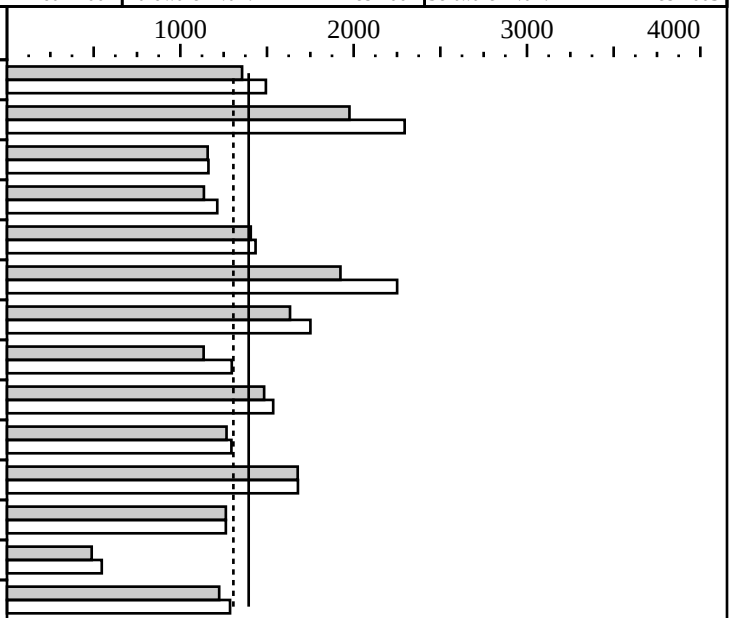
ASUS SK8N Motherboard, AMD Opteron (TM) Model 146 HE

SPECfp2000 = 1394

SPECfp_base2000 = 1306

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Jan-2004 | Hardware Avail: Feb-2004 | Software Avail: Feb-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	118	1356	107	1494
171.swim	3100	157	1976	135	2294
172.mgrid	1800	155	1158	155	1162
173.applu	2100	185	1136	173	1213
177.mesa	1400	99.5	1406	97.6	1434
178.galgel	2900	151	1924	129	2251
179.art	2600	159	1633	149	1750
183.equake	1300	115	1134	100	1297
187.facerec	1900	128	1483	124	1536
188.ammp	2200	174	1267	170	1295
189.lucas	2000	119	1677	119	1678
191.fma3d	2100	166	1263	166	1263
200.sixtrack	1100	225	489	201	547
301.apsi	2600	212	1224	202	1287



Hardware

CPU:	AMD Opteron (TM) Model 146 HE
CPU MHz:	2000
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:	2x512MB PC3200 DDR SDRAM ECC Registered
Disk Subsystem:	SATA, Western Digital WD360GD, 10k rpm
Other Hardware:	None

Software

Operating System:	Windows XP Professional SP1a
Compiler:	Intel C/C++ 7.0 build 20021212Z and Intel Fortran 7.0 build 20021212Z Compaq Visual Fortran Compiler Version 6.6 (Update B) Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 6.0
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
icl and ifl are the Intel C/C++ and Fortran compilers
f90 is the Compaq Fortran compiler
shlW32M6.lib is the SmartHeap library V6.0 from MicroQuill www.microquill.com
Portability:
  178.galgel: -FI -Fe$@ -link -stack:32000000
Baseline: C       icl +FDO -O3 -QxW  -Qipo
Baseline: Fortran ifl +FDO -O3 -QxW  -Qipo
Peak tuning:
  168.wupwise:    ifl +FDO     -QxK  -Qipo -Ow
  171.swim:       f90 -Optimize:5 -alignment:dcommons -alignment:records
                      -alignment:sequence -architecture:k7
                      -assume:noaccuracy_sensitive -math_library:fast -tune:k7
  172.mgrid:      ifl +FDO -O3 -QaxW -Qipo -Oa -Qprefetch-
  173.applu:      ifl +FDO -O3 -QxK  -Qipo     -Qscalar_rep-           -Zp8
  177.mesa:       icl +FDO -O3 -QxW  -Qipo -Oa -Qscalar_rep-
  178.galgel:     f90 -Optimize:5 -fast
```

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Notes/Tuning Information (Continued)

```
   179.art:        icl                -Qipo -Oa                -Qunroll4 -Zp4
   183.equake:     icl      -O3 -QxK  -Qipo -Oa shlW32M6.lib             -Zp4
   187.facerec:    ifl +FDO -O3 -QaxW -Qipo     -Qscalar_rep- -Qunroll1
   188.ammp:       icl           -QxW        -Oa
   189.lucas:      ifl +FDO -O3 -QxW  -Qipo     -Qprefetch-
   191.fma3d:      ifl basepeak=1
   200.sixtrack:   ifl                -Qipo -Oa                          -Zp4
   301.apsi:       f90 -Optimize:5 -fast
 ONESTEP is used for all base and peak runs
The tested system can be assembled using an ATX case such as the Antec KS-282,
a 480W power supply, and a AGP video card.
BIOS version: 1004
ECC disabled in BIOS by default
```