CFP2000 Result

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Advanced Micro Devices

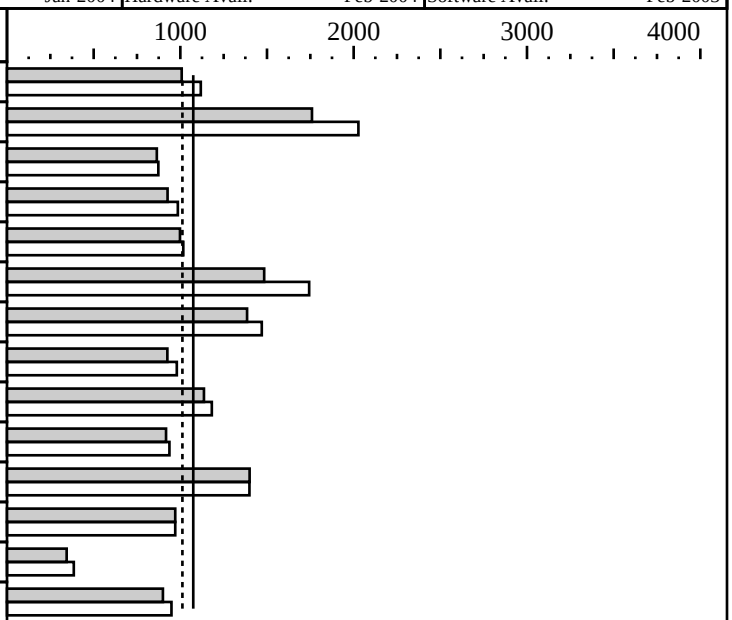
ASUS SK8N Motherboard, AMD Opteron (TM) Model 140 EE

SPECfp2000 = 1075

SPECfp_base2000 = 1012

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	159	1008	143	1118
171.swim	3100	176	1759	153	2027
172.mgrid	1800	208	864	206	873
173.applu	2100	227	926	213	986
177.mesa	1400	140	998	138	1017
178.galgel	2900	195	1484	166	1743
179.art	2600	188	1385	177	1470
183.equake	1300	141	925	133	980
187.facerec	1900	167	1136	161	1182
188.ammp	2200	240	918	235	937
189.lucas	2000	143	1400	143	1399
191.fma3d	2100	216	971	216	971
200.sixtrack	1100	320	344	285	385
301.apsi	2600	289	900	274	949



Hardware

CPU:	AMD Opteron (TM) Model 140 EE
CPU MHz:	1400
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 ANTEC power supply, and a AGP video card.
BIOS version: 1004
ECC disabled in BIOS by default
```