CFP2000 Result

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Advanced Micro Devices

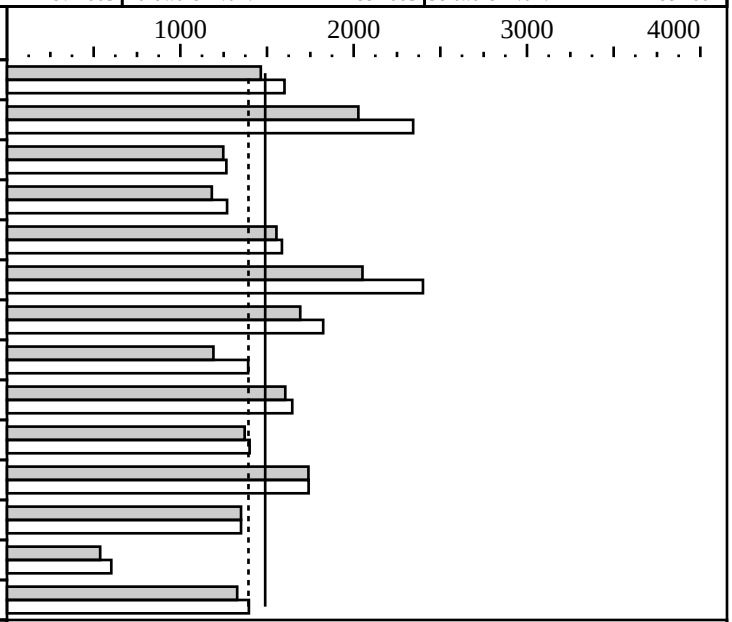
ASUS SK8N Motherboard, AMD Opteron (TM) 148

SPECfp2000 = 1490

SPECfp_base2000 = 1393

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Nov-2003 | Hardware Avail: Dec-2003 | Software Avail: Dec-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	109	1464	99.9	1601
171.swim	3100	153	2027	132	2343
172.mgrid	1800	144	1248	142	1266
173.applu	2100	178	1182	165	1270
177.mesa	1400	90.1	1554	88.3	1586
178.galgel	2900	141	2051	121	2400
179.art	2600	154	1692	143	1824
183.equake	1300	109	1191	93.4	1391
187.facerec	1900	118	1606	115	1646
188.ammp	2200	160	1371	157	1400
189.lucas	2000	115	1739	115	1740
191.fma3d	2100	156	1350	156	1350
200.sixtrack	1100	205	538	183	602
301.apsi	2600	196	1328	186	1396



Hardware

CPU:	AMD Opteron (TM) 148
CPU MHz:	2200
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:	Western Digital WD2000, IDE
Other Hardware:	None

Software

Operating System:	Microsoft 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 PCI or AGP video card.
```