



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices
ASUS SK8N Motherboard, AMD Opteron (TM) 146

SPECfp2000 = 1339
SPECfp_base2000 = 1250

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	119	1348	108	1485	
171.swim	3100	171	1818	142	2186	
172.mgrid	1800	161	1118	159	1134	
173.applu	2100	194	1080	182	1155	
177.mesa	1400	99.3	1410	97.4	1437	
178.galgel	2900	157	1843	134	2160	
179.art	2600	168	1551	155	1679	
183.quake	1300	118	1104	103	1267	
187.facerec	1900	128	1484	124	1528	
188.amp	2200	180	1222	176	1247	
189.lucas	2000	142	1412	142	1411	
191.fma3d	2100	170	1239	170	1239	
200.sixtrack	1100	225	489	201	547	
301.apsi	2600	234	1110	224	1160	

Hardware

CPU: AMD Opteron (TM) 146
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 CL2.5
Disk Subsystem: SATA, Western Digital WD360GD, 10k rpm
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
```



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices
ASUS SK8N Motherboard, AMD Opteron (TM) 146

SPECfp2000 = 1339
SPECfp_base2000 = 1250

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

Notes/Tuning Information (Continued)

```

179.art:          icl          -Qipo -Oa          -Qunroll14 -Zp4
183.equake:      icl          -O3 -QxK  -Qipo -Oa  shlw32M6.lib -Zp4
187.facerec:     ifl +FDO -O3 -QaxW -Qipo          -Qscalar_rep- -Qunroll11
188.amp:         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
ECC on, ECC scrubbing off

```