



# CFP2000 Result

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Advanced Micro Devices  
ASUS SK8N Motherboard, AMD Athlon (TM) FX-51

SPECfp2000 = 1423  
SPECfp\_base2000 = 1329

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	110	1455	101	1590	
171.swim	3100	166	1864	140	2220	
172.mgrid	1800	150	1199	148	1216	
173.applu	2100	188	1117	175	1202	
177.mesa	1400	90.1	1554	88.7	1579	
178.galgel	2900	148	1961	127	2291	
179.art	2600	162	1607	150	1739	
183.quake	1300	112	1157	96.1	1352	
187.facerec	1900	119	1595	116	1633	
188.amp	2200	166	1324	163	1353	
189.lucas	2000	137	1456	137	1459	
191.fma3d	2100	160	1315	160	1315	
200.sixtrack	1100	205	537	183	601	
301.apsi	2600	217	1197	208	1249	

### Hardware

CPU: AMD Athlon (TM) FX-51 ADAFX51CE5AK  
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 CL2.5, ECC Registered  
Disk Subsystem: Western Digital WD360GD, SATA, 10k rpm  
Other Hardware: None

### Software

Operating System: Microsoft Windows XP Professional Service Pack 1.0a  
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
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
179.art: icl -Qipo -Oa -Qunroll4 -Zp4
```



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## Notes/Tuning Information (Continued)

```

183.equake:      icl      -O3 -QxK  -Qipo -Oa shlw32M6.lib      -Zp4
187.facerec:    ifl +FD0 -O3 -QaxW -Qipo      -Qscalar_rep- -Qunroll1
188.ammmp:      icl      -QxW      -Oa
189.lucas:      ifl +FD0 -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  
and a 460W power supply such as the Antec True 460  
ECC disabled