



# CFP2000 Result

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## Advanced Micro Devices

Epox 8KHA+ Motherboard, AMD Athlon (TM) XP 1800+

SPECfp2000 = 615

SPECfp\_base2000 = 572

SPEC license #: 49 Tested by: AMD Austin TX Test date: Oct-2001 Hardware Avail: Nov-2001 Software Avail: Sep-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	300 600 900 1200			
168.wupwise	1600	191	836	192	835	[Bar chart showing ratio 835]			
171.swim	3100	390	796	389	797	[Bar chart showing ratio 797]			
172.mgrid	1800	344	523	344	523	[Bar chart showing ratio 523]			
173.applu	2100	394	533	387	542	[Bar chart showing ratio 542]			
177.mesa	1400	168	831	167	840	[Bar chart showing ratio 840]			
178.galgel	2900	533	544	309	939	[Bar chart showing ratio 939]			
179.art	2600	607	428	595	437	[Bar chart showing ratio 437]			
183.quake	1300	251	518	204	636	[Bar chart showing ratio 636]			
187.facerec	1900	277	685	284	668	[Bar chart showing ratio 668]			
188.amp	2200	497	443	466	472	[Bar chart showing ratio 472]			
189.lucas	2000	327	612	323	619	[Bar chart showing ratio 619]			
191.fma3d	2100	324	648	324	648	[Bar chart showing ratio 648]			
200.sixtrack	1100	284	387	276	399	[Bar chart showing ratio 399]			
301.apsi	2600	561	464	490	531	[Bar chart showing ratio 531]			

### Hardware

CPU: AMD Athlon (TM) XP 1800+  
 CPU MHz: 1533  
 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: 256KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2x128MB PC2100 DDR SDRAM CL2  
 Disk Subsystem: Seagate ST320414A  
 Other Hardware: None

### Software

Operating System: Windows 2000 SP1  
 Compiler: Compaq Visual Fortran 6.6  
 Intel C/C++ 5.0.1 build 010525Z  
 Intel Fortran 5.0.1 build 010525Z  
 Microsoft Visual Studio 6.0 SP5 (libraries)  
 MicroQuill Smartheap Library 5.0  
 File System: FAT32  
 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  
 shlw32M.lib is the SmartHeap library V5.0 from MicroQuill www.microquill.com  
 Portability:  
 178.galgel: -FI -Fe\$@ -link -stack:32000000  
 Baseline: C icl -QxK -Qipo +FDO shlw32M.lib  
 Baseline: Fortran ifl -O3 -QxK -Qipo +FDO  
 Peak tuning:  
 168.wupwise: ifl -O3 -QxK -Qwp\_ipo +FDO  
 171.swim: ifl -O3 -QxK -Qwp\_ipo +FDO  
 172.mgrid: ifl -O3 -QxK -Qwp\_ipo +FDO  
 173.applu: ifl -O3 -QxK -Qwp\_ipo -Qscalar\_rep- -Qauto +FDO  
 177.mesa: icl -O3 -QxK -Qwp\_ipo -Oa -Qunroll10 +FDO shlw32M.lib  
 178.galgel: f90 -Optimize:5 -fast  
 179.art: icl -O3 -QxK -QaxW -Qwp\_ipo -Oa +FDO shlw32M.lib  
 183.quake: icl -O3 -QxK -Qwp\_ipo -Qrcd -Oa +FDO shlw32M.lib



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## Notes/Tuning Information (Continued)

```
187.facerec: f90 -Optimize:5 -fast
188.ammf: icl -O3 -QxK -Qwp_ipo -Oa +FDO
189.lucas: ifl -O3 -QxK -Qwp_ipo +FDO shlw32M.lib
191.fma3d: ifl -O3 -QxK -Qwp_ipo +FDO
200.sixtrack: ifl -QxK -QaxW -Qwp_ipo -Qprefetch +FDO
301.apsi: f90 -Optimize:5 -fast
```

Library ordering for 189.lucas (to include SmartHeap correctly with default libs):

```
LIBS=libIEPCF90.lib libintrins.lib libF90.lib
libqwind.lib libm.lib shlw32M.lib LIBC.lib libirc.lib OLDNAMES.lib
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 300W power supply such as the Sparkle FSP300-60GT, and a PCI or AGP video card. The System bus runs at 266MHz