



# CFP2000 Result

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## Advanced Micro Devices

Epox 8KHA+ Motherboard, AMD Athlon (TM) XP 2200+

SPECfp2000 = 671

SPECfp\_base2000 = 624

SPEC license #: 49 Tested by: AMD Austin, TX Test date: Jun-2002 Hardware Avail: Jun-2002 Software Avail: Feb-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	172	928	172	928	
171.swim	3100	369	840	369	840	
172.mgrid	1800	327	551	327	551	
173.applu	2100	365	575	361	582	
177.mesa	1400	145	968	142	988	
178.galgel	2900	502	578	289	1004	
179.art	2600	604	431	597	436	
183.quake	1300	226	574	189	689	
187.facerec	1900	251	757	251	757	
188.amp	2200	461	477	428	515	
189.lucas	2000	300	666	298	672	
191.fma3d	2100	295	711	295	711	
200.sixtrack	1100	241	456	234	470	
301.apsi	2600	516	504	450	578	

### Hardware

CPU: AMD Athlon (TM) XP 2200+  
 CPU MHz: 1800  
 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: 2x256MB PC2100 DDR SDRAM CL2  
 Disk Subsystem: IDE IBM DTLA-307030  
 Other Hardware: None

### Software

Operating System: Windows 2000 SP2  
 Compiler: Intel C++ 5.0.1 build 020125Z  
 Intel Fortran 5.0.1 build 020125Z and Compaq Visual Fortran 6.6  
 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++ 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 +FDO shlw32M.li  
 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:  if1 -O3 -QxK -Qipo +FDO
188.ampp:     icl -O3 -QxK -Qwp_ipo -Oa +FDO
189.lucas:    if1 -O3 -QxK -Qwp_ipo +FDO shlw32M.lib
191.fma3d:    if1 -O3 -QxK -Qwp_ipo +FDO
200.sixtrack: if1 -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