



CFP2000 Result

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Advanced Micro Devices

Epox 8KHA+ Motherboard, AMD Athlon (TM) XP 2000+

SPECfp2000 = 642

SPECfp_base2000 = 596

SPEC license #: 49 Tested by: AMD Austin TX Test date: Jan-2002 Hardware Avail: Jan-2002 Software Avail: Sep-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	300 600 900 1200			
168.wupwise	1600	181	885	181	885	[Bar chart showing ratio 885]			
171.swim	3100	384	808	383	809	[Bar chart showing ratio 809]			
172.mgrid	1800	338	533	338	533	[Bar chart showing ratio 533]			
173.applu	2100	382	549	378	556	[Bar chart showing ratio 556]			
177.mesa	1400	157	892	154	912	[Bar chart showing ratio 912]			
178.galgel	2900	513	566	299	970	[Bar chart showing ratio 970]			
179.art	2600	601	433	592	439	[Bar chart showing ratio 439]			
183.quake	1300	239	544	197	662	[Bar chart showing ratio 662]			
187.facerec	1900	267	713	267	713	[Bar chart showing ratio 713]			
188.amp	2200	481	457	446	493	[Bar chart showing ratio 493]			
189.lucas	2000	317	632	313	639	[Bar chart showing ratio 639]			
191.fma3d	2100	309	679	309	680	[Bar chart showing ratio 680]			
200.sixtrack	1100	261	422	253	434	[Bar chart showing ratio 434]			
301.apsi	2600	537	484	467	557	[Bar chart showing ratio 557]			

Hardware

CPU: AMD Athlon (TM) XP 2000+
CPU MHz: 1667
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: Intel C++ 5.0.1 build 010727Z
Intel Fortran 5.0.1 build 010727Z 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 -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: ifl -O3 -QxK -Qipo +FDO
188.ampp:    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

System BIOS Settings: Date 11/2/01, Optimized defaults. Memory settings: Turbo, 4-way interleave