



CFP2000 Result

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Advanced Micro Devices

Epox 8KHA+ Motherboard, AMD Athlon (TM) XP 1900+

SPECfp2000 = 634

SPECfp_base2000 = 588

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	185	866	185	866	[Bar chart showing ratio 866]			
171.swim	3100	381	813	381	813	[Bar chart showing ratio 813]			
172.mgrid	1800	335	538	334	538	[Bar chart showing ratio 538]			
173.applu	2100	381	552	376	559	[Bar chart showing ratio 559]			
177.mesa	1400	163	861	160	874	[Bar chart showing ratio 874]			
178.galgel	2900	525	553	302	961	[Bar chart showing ratio 961]			
179.art	2600	601	432	592	439	[Bar chart showing ratio 439]			
183.quake	1300	243	535	198	656	[Bar chart showing ratio 656]			
187.facerec	1900	270	703	270	703	[Bar chart showing ratio 703]			
188.amp	2200	483	455	453	486	[Bar chart showing ratio 486]			
189.lucas	2000	317	632	314	638	[Bar chart showing ratio 638]			
191.fma3d	2100	315	667	315	667	[Bar chart showing ratio 667]			
200.sixtrack	1100	273	403	265	415	[Bar chart showing ratio 415]			
301.apsi	2600	545	477	476	546	[Bar chart showing ratio 546]			

Hardware

CPU: AMD Athlon (TM) XP 1900+
CPU MHz: 1600
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: 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
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: Optimized defaults, Memory settings: Turbo, date: 9/25/01