



CFP2000 Result

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Advanced Micro Devices

Gigabyte GA-7DX Motherboard, AMD Athlon (TM) XP 1800+

SPECfp2000 = 588

SPECfp_base2000 = 542

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	201	797	201	796	
171.swim	3100	362	855	362	855	
172.mgrid	1800	344	523	344	523	
173.applu	2100	429	490	422	497	
177.mesa	1400	172	812	167	838	
178.galgel	2900	592	490	333	872	
179.art	2600	662	393	628	414	
183.quake	1300	276	471	225	578	
187.facerec	1900	306	621	302	629	
188.amp	2200	546	403	510	431	
189.lucas	2000	347	576	345	580	
191.fma3d	2100	349	601	349	601	
200.sixtrack	1100	284	388	276	398	
301.apsi	2600	589	442	507	513	

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: IBM DPTA-372020
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.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