



CFP2000 Result

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Advanced Micro Devices

MSI K7D Master Motherboard, AMD Athlon (TM) MP 2200+

SPECfp_rate2000 = 7.47

SPECfp_rate_base2000 = 6.87

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	182	10.2	1	182	10.2
171.swim	1	346	10.4	1	346	10.4
172.mgrid	1	319	6.54	1	318	6.57
173.applu	1	401	6.08	1	396	6.15
177.mesa	1	146	11.1	1	144	11.3
178.galgel	1	598	5.62	1	307	11.0
179.art	1	619	4.87	1	596	5.06
183.equake	1	246	6.13	1	207	7.28
187.facerec	1	275	8.01	1	275	8.02
188.amp	1	505	5.05	1	468	5.45
189.lucas	1	323	7.17	1	322	7.22
191.fma3d	1	315	7.73	1	315	7.73
200.sixtrack	1	242	5.27	1	235	5.43
301.apsi	1	535	5.64	1	461	6.55

Hardware

CPU: AMD Athlon (TM) MP 2200+
CPU MHz: 1800
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1, 2
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 ST318452LW
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.lib
178.galgel: f90 -Optimize:5 -fast
179.art: icl -O3 -QxK -QaxW -Qwp_ipo -Oa +FDO shlw32M.lib
183.equake: 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.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 420W power supply such as the NSpire NSP-420P4B, and a PCI or AGP video card. The System bus runs at 266MHz