



CFP2000 Result

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Advanced Micro Devices

MSI K7D Master-L Motherboard, AMD Athlon (TM) MP 2100+

SPECfp_rate2000 = 11.0

SPECfp_rate_base2000 = 10.3

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

21 18 15 12 9 6 3							Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
							168.wupwise	2	219	17.0	2	219	17.0
							171.swim	2	645	11.1	2	645	11.2
							172.mgrid	2	542	7.71	2	542	7.71
							173.applu	2	558	8.74	2	555	8.77
							177.mesa	2	158	20.6	2	155	20.9
							178.galgel	2	764	8.81	2	443	15.2
							179.art	2	1120	5.38	2	1120	5.38
							183.equake	2	293	10.3	2	258	11.7
							187.facerec	2	357	12.4	2	356	12.4
							188.amp	2	636	8.03	2	598	8.54
							189.lucas	2	408	11.4	2	410	11.3
							191.fma3d	2	423	11.5	2	423	11.5
							200.sixtrack	2	254	10.0	2	247	10.3
							301.apsi	2	653	9.24	2	567	10.6

Hardware

CPU: AMD Athlon (TM) MP 2100+
CPU MHz: 1733
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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 ST318451LW
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 -Qunroll0 +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