



CFP2000 Result

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Advanced Micro Devices

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

SPECfp_rate2000 = 7.39

SPECfp_rate_base2000 = 6.78

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	185	10.0	1	185	10.0
171.swim	1	346	10.4	1	346	10.4
172.mgrid	1	319	6.55	1	319	6.55
173.applu	1	404	6.03	1	398	6.12
177.mesa	1	152	10.7	1	148	10.9
178.galgel	1	611	5.51	1	309	10.9
179.art	1	623	4.84	1	596	5.06
183.quake	1	249	6.05	1	207	7.30
187.facerec	1	278	7.93	1	278	7.93
188.amp	1	510	5.01	1	473	5.39
189.lucas	1	326	7.13	1	323	7.17
191.fma3d	1	322	7.58	1	321	7.58
200.sixtrack	1	251	5.09	1	243	5.24
301.apsi	1	542	5.56	1	467	6.45

Hardware

CPU: AMD Athlon (TM) MP 2100+
 CPU MHz: 1733
 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 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 -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.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