



CFP2000 Result

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Advanced Micro Devices

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

SPECfp2000 = 637

SPECfp_base2000 = 584

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	185	863	185	864	
171.swim	3100	346	895	346	897	
172.mgrid	1800	319	564	319	565	
173.applu	2100	404	520	398	528	
177.mesa	1400	152	922	148	944	
178.galgel	2900	611	475	309	938	
179.art	2600	623	418	596	436	
183.quake	1300	249	521	207	629	
187.facerec	1900	278	683	278	684	
188.amp	2200	510	432	473	465	
189.lucas	2000	326	614	323	618	
191.fma3d	2100	322	653	321	653	
200.sixtrack	1100	251	439	243	452	
301.apsi	2600	542	480	467	556	

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.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 420W power supply such as the NSPIRE NSP-420P4B, and a PCI or AGP video card. The System bus runs at 266MHz