



# CFP2000 Result

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## Advanced Micro Devices

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

SPECfp2000 = 644

SPECfp\_base2000 = 592

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

| Benchmark    | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|--------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise  | 1600           | 182          | 879        | 182     | 880   |  |
| 171.swim     | 3100           | 346          | 896        | 346     | 897   |  |
| 172.mgrid    | 1800           | 319          | 564        | 318     | 566   |  |
| 173.applu    | 2100           | 401          | 524        | 396     | 530   |  |
| 177.mesa     | 1400           | 146          | 957        | 144     | 972   |  |
| 178.galgel   | 2900           | 598          | 485        | 307     | 946   |  |
| 179.art      | 2600           | 619          | 420        | 596     | 437   |  |
| 183.quake    | 1300           | 246          | 528        | 207     | 627   |  |
| 187.facerec  | 1900           | 275          | 691        | 275     | 691   |  |
| 188.amp      | 2200           | 505          | 436        | 468     | 470   |  |
| 189.lucas    | 2000           | 323          | 619        | 322     | 622   |  |
| 191.fma3d    | 2100           | 315          | 667        | 315     | 667   |  |
| 200.sixtrack | 1100           | 242          | 454        | 235     | 468   |  |
| 301.apsi     | 2600           | 535          | 486        | 461     | 565   |  |

### 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.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