## Advanced Micro Devices

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

**SPECfp2000 = 637**

**SPECfp_base2000 = 584**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Reference Time</th>
<th>Base Runtime</th>
<th>Base Ratio</th>
<th>Runtime</th>
<th>Ratio</th>
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</table>

### 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:** 64KB1 + 64KBD on chip
- **Secondary Cache:** 256KB(1+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

+FD0: 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$9 -link -stack:32000000
Baseline: C icl -QXK -Qipo +FD0 shlw32M.lib
Baseline: Fortran ifl -O3 -QxK -Qipo +FD0
Peak tuning:

168.wupwise: ifl -O3 -QxK -Qwp_ipo +FD0
171.swim: ifl -O3 -QxK -Qwp_ipo +FD0
172.mgrid: ifl -O3 -QxK -Qwp_ipo +FD0
173.applu: ifl -O3 -QxK -Qwp_ipo -Qscalar_rep -Qauto +FD0
177.mesa: icl -O3 -QxK -Qwp_ipo -Oa -Qunroll0 +FD0 shlw32M.lib
178.galgel: f90 -Optimize:5 -fast
179.art: icl -O3 -QxK -QaxW -Qwp_ipo -Oa +FD0 shlw32M.lib
183.equake: icl -O3 -QxK -Qwp_ipo -Qrcd -Oa +FD0 shlw32M.lib

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Standard Performance Evaluation Corporation
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http://www.spec.org
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Notes/Tuning Information (Continued)

187. facerec: ifl -O3 -QxK -Qipo +FDO
188. ammp: icl -O3 -QxK -Qwp_ipo -Oa +FDO
189. lucas: ifl -O3 -QxK -Qwp_ipo +FDO sh1W32M.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 sh1W32M.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