# CFP2000 Result

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## Advanced Micro Devices

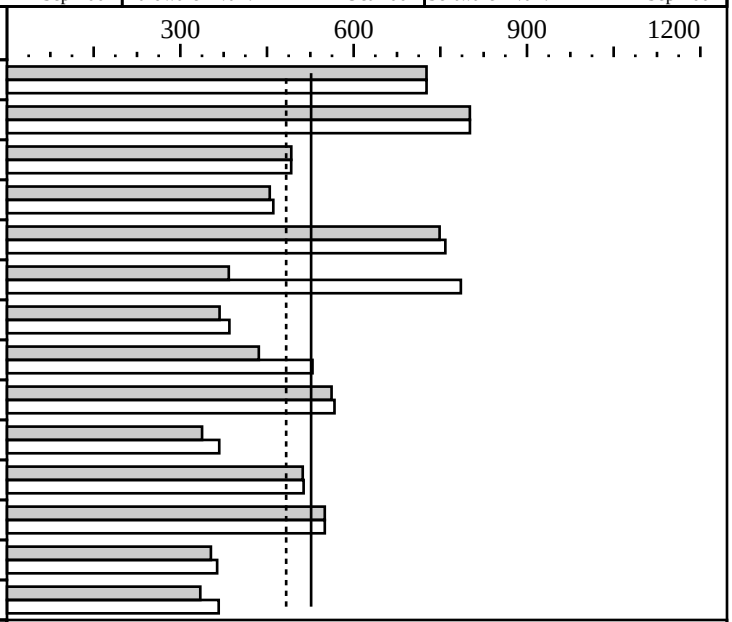
Tyan Thunder K7 Motherboard, AMD Athlon (TM) MP 1600+

SPECfp2000 = 526

SPECfp_base2000 = 483

SPEC license #: 49 | Tested by: AMD Austin TX | Test date: Sep-2001 | Hardware Avail: Oct-2001 | Software Avail: Sep-2001

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 168.wupwise | 1600 | 220 | 726 | 220 | 726 |
| 171.swim | 3100 | 387 | 801 | 387 | 801 |
| 172.mgrid | 1800 | 366 | 492 | 366 | 492 |
| 173.applu | 2100 | 462 | 455 | 456 | 461 |
| 177.mesa | 1400 | 187 | 749 | 185 | 759 |
| 178.galgel | 2900 | 755 | 384 | 369 | 786 |
| 179.art | 2600 | 707 | 368 | 675 | 385 |
| 183.equake | 1300 | 298 | 436 | 246 | 529 |
| 187.facerec | 1900 | 338 | 562 | 335 | 567 |
| 188.ammp | 2200 | 652 | 338 | 599 | 367 |
| 189.lucas | 2000 | 391 | 512 | 390 | 513 |
| 191.fma3d | 2100 | 382 | 550 | 382 | 550 |
| 200.sixtrack | 1100 | 312 | 353 | 302 | 364 |
| 301.apsi | 2600 | 777 | 335 | 710 | 366 |




### Hardware

| | |
|---|---|
| CPU: | AMD Athlon (TM) MP 1600+ |
| CPU MHz: | 1400 |
| 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: | 1x256MB PC2100 DDR SDRAM CL2 Registered |
| Disk Subsystem: | IBM DPTA-372020 |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Windows 2000 SP2 |
| Compiler: | Compaq Visual Fortran 6.6<br>Intel C/C++ 5.0.1 build 010525Z<br>Intel Fortran 5.0.1 build 010525Z<br>Microsoft Visual Studio 6.0 SP5 (libraries)<br>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/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:  f90 -Optimize:5 -fast
 188.ammp:     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 a case such as the Chenming 601 AE-F-O,
a 460W power supply such as the Delta Electronics DPS465 AB A
The System bus runs at 266MHz
```