



# CFP2000 Result

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## Advanced Micro Devices

Tyan Thunder K7 Motherboard, 1.2GHz Athlon MP Processor

SPECfp\_rate2000 = 9.14

SPECfp\_rate\_base2000 = 8.30

SPEC license #: 49 | Tested by: AMD | Test date: May-2001 | Hardware Avail: Jun-2001 | Software Avail: Jan-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	268	13.9	2	262	14.2
171.swim	2	708	10.2	2	707	10.2
172.mgrid	2	590	7.08	2	588	7.10
173.applu	2	624	7.81	2	612	7.96
177.mesa	2	213	15.2	2	217	15.0
178.galgel	2	965	6.97	2	569	11.8
179.art	2	1227	4.92	2	1218	4.95
183.quake	2	452	6.67	2	299	10.1
187.facerec	2	502	8.77	2	410	10.7
188.amp	2	714	7.15	2	703	7.26
189.lucas	2	480	9.66	2	475	9.76
191.fma3d	2	548	8.89	2	496	9.82
200.sixtrack	2	363	7.03	2	362	7.05
301.apsi	2	840	7.18	2	809	7.46

### Hardware

CPU: 1.2GHz AMD Athlon MP AHD1200AMS3C  
CPU MHz: 1200  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 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 Registered  
Disk Subsystem: IDE IBM Deskstar DTLA-307020  
Other Hardware: None

### Software

Operating System: Windows 2000 SP1  
Compiler: Compaq Visual Fortran 6.5A  
Intel C/C++ 5.0 build 001120  
Intel Fortran 5.0 build 001120  
Microsoft Visual Studio 6.0 (libraries)  
MicroQuill Smartheap Library 5.0  
File System: NTFS  
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
Baseline: Fortran ifl -O3 -QxK -Qipo +FDO
Peak tuning:
168.wupwise: ifl -O3 -QxK -Qipo +FDO
171.swim: ifl -O3 -QxK -Qipo +FDO
172.mgrid: ifl -O3 -QaxK -Qipo +FDO
173.applu: ifl -O3 -QxK -Qipo +FDO
177.mesa: icl -QxK -Qipo -Oa +FDO shlw32M.lib
178.galgel: f90 -Optimize:5 -fast
179.art: icl -QxK -Qipo -Oa +FDO shlw32M.lib
183.quake: icl -QxK -Qipo -Qrcd -Oa +FDO shlw32M.lib
```



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## Notes/Tuning Information (Continued)

```
187.facerec: f90 -Optimize:5 -fast
188.ampp:    icl -QxK -Qipo -Oa +FDO
189.lucas:   ifl -O3 -QxK -Qipo +FDO shlw32M.lib
191.fma3d:   f90 -Optimize:5 -fast
200.sixtrack: ifl -QxK -Qipo +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 Model DPS-465 AB A

The System bus runs at 266MHz