



# CFP2000 Result

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## Advanced Micro Devices

Tyan Thunder K7 Motherboard, AMD Athlon (TM) MP 1500+

SPECfp2000 = 516

SPECfp\_base2000 = 473

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	200 400 600 800			
168.wupwise	1600	227	704	227	705	[Bar chart showing ratio 705]			
171.swim	3100	390	796	390	795	[Bar chart showing ratio 795]			
172.mgrid	1800	370	487	370	487	[Bar chart showing ratio 487]			
173.applu	2100	468	448	461	455	[Bar chart showing ratio 455]			
177.mesa	1400	196	716	192	730	[Bar chart showing ratio 730]			
178.galgel	2900	771	376	375	773	[Bar chart showing ratio 773]			
179.art	2600	709	367	674	386	[Bar chart showing ratio 386]			
183.quake	1300	306	424	251	519	[Bar chart showing ratio 519]			
187.facerec	1900	346	549	344	553	[Bar chart showing ratio 553]			
188.amp	2200	664	331	609	361	[Bar chart showing ratio 361]			
189.lucas	2000	396	505	395	506	[Bar chart showing ratio 506]			
191.fma3d	2100	391	537	391	537	[Bar chart showing ratio 537]			
200.sixtrack	1100	327	337	317	347	[Bar chart showing ratio 347]			
301.apsi	2600	798	326	730	356	[Bar chart showing ratio 356]			

### Hardware

CPU: AMD Athlon (TM) MP 1500+  
 CPU MHz: 1333  
 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  
 Intel C/C++ 5.0.1 build 010525Z  
 Intel Fortran 5.0.1 build 010525Z  
 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/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: f90 -Optimize:5 -fast
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 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