



CFP2000 Result

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Advanced Micro Devices

Tyan Thunder K7 Motherboard, AMD Athlon (TM) MP 1800+

SPECfp2000 = 547

SPECfp_base2000 = 504

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	208	769	208	769	
171.swim	3100	391	792	391	792	
172.mgrid	1800	368	489	368	489	
173.applu	2100	451	466	445	472	
177.mesa	1400	174	806	171	818	
178.galgel	2900	712	407	360	806	
179.art	2600	715	363	686	379	
183.quake	1300	283	459	235	552	
187.facerec	1900	321	592	316	602	
188.amp	2200	610	361	569	387	
189.lucas	2000	374	535	373	536	
191.fma3d	2100	366	574	366	574	
200.sixtrack	1100	287	384	278	395	
301.apsi	2600	734	354	668	389	

Hardware

CPU: AMD Athlon (TM) MP 1800+
 CPU MHz: 1533
 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: 256MB PC2100 DDR SDRAM CL2 Registered
 Disk Subsystem: Seagate ST330620A
 Other Hardware: None

Software

Operating System: Windows 2000 SP1
 Compiler: Compaq Visual Fortran 6.6
 Intel C/C++ 5.0.1 build 010525Z and
 Intel Fortran 5.0.1 build 010525Z
 Microsoft Visual Studio 6.0 SP5 (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 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)

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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