



CFP2000 Result

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Advanced Micro Devices

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

SPECfp_rate2000 = 6.34

SPECfp_rate_base2000 = 5.84

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	208	8.92	1	208	8.92
171.swim	1	391	9.19	1	391	9.19
172.mgrid	1	368	5.67	1	368	5.68
173.applu	1	451	5.40	1	445	5.47
177.mesa	1	174	9.35	1	171	9.49
178.galgel	1	712	4.72	1	360	9.35
179.art	1	715	4.22	1	686	4.40
183.quake	1	283	5.33	1	235	6.41
187.facerec	1	321	6.87	1	316	6.98
188.amp	1	610	4.18	1	569	4.49
189.lucas	1	374	6.21	1	373	6.21
191.fma3d	1	366	6.66	1	366	6.66
200.sixtrack	1	287	4.45	1	278	4.59
301.apsi	1	734	4.11	1	668	4.52

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)

```
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