



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices

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

SPECfp_rate2000 = 10.1

SPECfp_rate_base2000 = 9.42

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

21 18 15 12 9 6 3							Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
							168.wupwise	2	233	16.0	2	230	16.1
							171.swim	2	704	10.2	2	704	10.2
							172.mgrid	2	589	7.09	2	591	7.07
							173.applu	2	594	8.20	2	595	8.19
							177.mesa	2	182	17.8	2	177	18.3
							178.galgel	2	789	8.53	2	477	14.1
							179.art	2	1227	4.92	2	1227	4.92
							183.equake	2	318	9.48	2	278	10.8
							187.facerec	2	382	11.5	2	373	11.8
							188.amp	2	702	7.27	2	656	7.78
							189.lucas	2	452	10.3	2	448	10.3
							191.fma3d	2	448	10.9	2	447	10.9
							200.sixtrack	2	288	8.85	2	280	9.12
							301.apsi	2	778	7.75	2	693	8.71

Hardware

CPU: AMD Athlon (TM) MP 1800+
 CPU MHz: 1533
 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: 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
 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 -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



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices

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

SPECfp_rate2000 = 10.1

SPECfp_rate_base2000 = 9.42

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

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