CFP2000 Result

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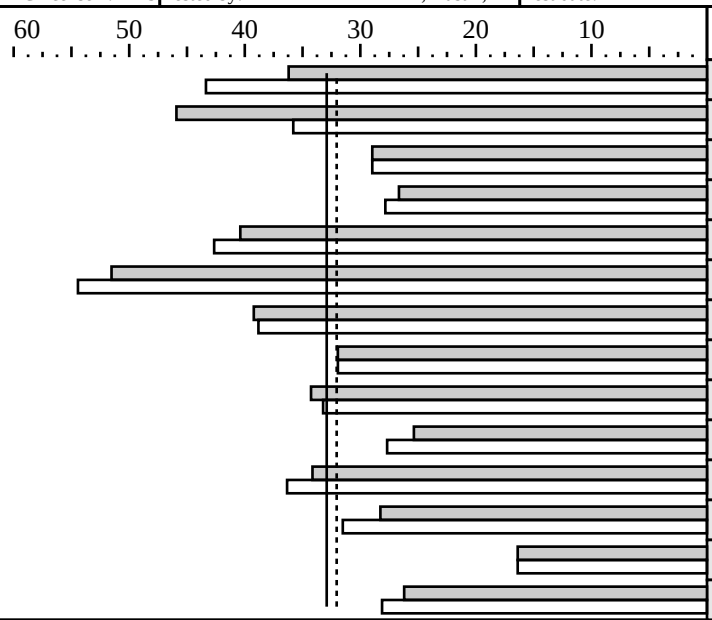
Advanced Micro Devices

Tyan Thunder K8W (S2885), AMD Opteron (TM) 250

SPECfp_rate2000 = 32.9

SPECfp_rate_base2000 = 32.0

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Apr-2004 | Hardware Avail: May-2004 | Software Avail: Apr-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	103	36.2	2	85.6	43.4
171.swim	2	157	45.9	2	201	35.8
172.mgrid	2	144	29.0	2	144	29.0
173.applu	2	183	26.7	2	175	27.8
177.mesa	2	80.4	40.4	2	76.2	42.6
178.galgel	2	131	51.5	2	124	54.4
179.art	2	154	39.2	2	155	38.8
183.equake	2	94.4	31.9	2	94.4	31.9
187.facerec	2	129	34.3	2	133	33.2
188.ammp	2	201	25.4	2	184	27.7
189.lucas	2	136	34.1	2	128	36.3
191.fma3d	2	172	28.3	2	155	31.5
200.sixtrack	2	156	16.4	2	156	16.4
301.apsi	2	230	26.2	2	215	28.1

Hardware

CPU:	AMD Opteron (TM) 250
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	2
Parallel:	No
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x512 MB PC3200 DDR SDRAM ECC Registered CL3.0
Disk Subsystem:	SCSI
Other Hardware:	None

Software

Operating System:	Microsoft Windows Server 2003 Enterprise Edition
Compiler:	Intel C++ 8.0 build 20031229Z, Intel Fortran 8.0 build 20031017Z, PGI Fortran compiler 5.1-3 for Windows XP, AMD Core Math library Version 2.0 (ACML), Microsoft Visual Studio .NET 7.0.9466 (libraries), MicroQuill Smartheap Library 6.0
File System:	NTFS
System State:	Default

Notes/Tuning Information

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Tested by AMD
  +FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
  +ACML is the AMD Core Math Library V2.0
  ONESTEP is set for all peak runs.
  ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
  pgf90 is the PGI Fortran compiler.
  Portability:
    178.galgel: -Mfixed
  Baseline: C      : icl   -fast -arch:SSE2 -QaxW +FDO
  Baseline: Fortran: pgf90 -fastsse -Mipa=fast
  168.wupwise:       pgf90 -fastsse -Mipa=fast    -Minline=levels:2
  171.swim:          ifort       -O3        -QxW  +FDO
  172.mgrid:         pgf90 basepeak=yes
  177.mesa:          icl   -Qipo -arch:SSE2       +FDO -Qunroll1 -Qansi_alias
                       -Qoption,f,-ip_ninl_max_stats=1500 -Qoption,f,-ip_ninl_max_total_stats=4500
  178.galgel:        pgf90 -fastsse -O3     RM_SOURCES=lapak.f90 -Munix +ACML
  179.art:           icl   -Qipo            -Zp4  +FDO
```

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Notes/Tuning Information (Continued)

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  183.equake:        icl   -fast -arch:SSE2 -QaxW +FDO -Qansi_alias
  187.facerec:       ifort -fast            -QxW  +FDO
  188.ammp:          icl   -Oa   -arch:SSE2 -Zp4       -Qansi_alias
  189.lucas:         ifort                  -QxW       -Qunroll1
  191.fma3d:         ifort -fast            -QxW  +FDO -Qscalar_rep-
                      -Qoption,f,-ip_ninl_max_stats=1000 -Qoption,f,-ip_ninl_max_total_stats=3500
  200.sixtrack:      pgf90 basepeak=yes
  301.apsi:          ifort -fast            -QxW  +FDO
 The tested system can be assembled using an ATX case such as the Antec KS-282,
 a 460W power supply such as the Sparkle FSP460-60PFN, and a PCI or AGP video card.
BIOS rev.: 1.01
```