CFP2000 Result

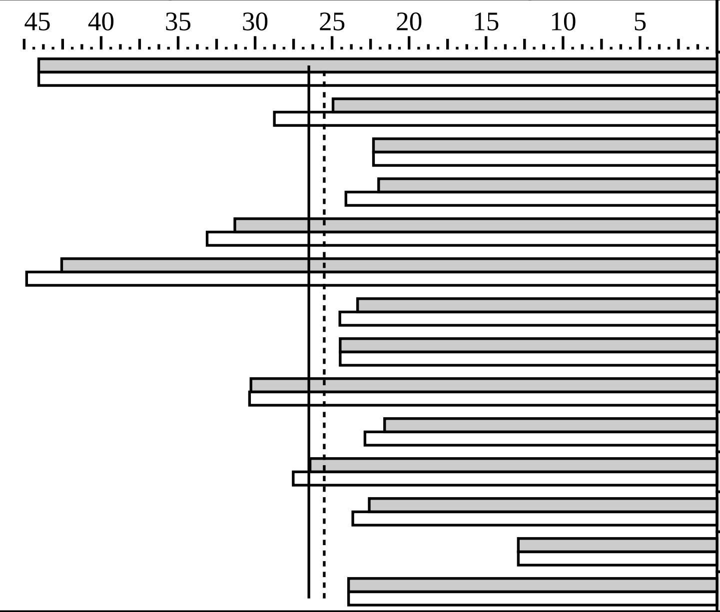
Advanced Micro Devices

TYAN S2895 Thunder K8WE, AMD Opteron (TM) 265

SPECfp_rate2000 = 26.5

SPECfp_rate_base2000 = 25.5

SPEC license #: 49	Tested by: AMD, Austin, TX	Test date: Apr-2005	Hardware Avail: May-2005	Software Avail: Mar-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	84.3	44.1	2	84.3	44.1
171.swim	2	288	24.9	2	250	28.7
172.mgrid	2	187	22.3	2	187	22.3
173.applu	2	222	22.0	2	202	24.1
177.mesa	2	104	31.3	2	98.1	33.1
178.galgel	2	158	42.6	2	150	44.8
179.art	2	258	23.3	2	246	24.5
183.equake	2	123	24.5	2	123	24.5
187.facerec	2	146	30.3	2	145	30.4
188.ammp	2	236	21.6	2	223	22.9
189.lucas	2	176	26.4	2	169	27.5
191.fma3d	2	216	22.6	2	206	23.7
200.sixtrack	2	198	12.9	2	198	12.9
301.apsi	2	252	23.9	2	252	23.9

Hardware

CPU:	AMD Opteron (TM) 265
CPU MHz:	1800
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	64KBI + 64KBD/core
Secondary Cache:	1024KB(I+D)/core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x512 MB PC3200 CL2.5 ECC Reg
Disk Subsystem:	SATA, Western Digital WD740GD, 10000 RPM
Other Hardware:	None

Software

Operating System:	Microsoft Windows Server 2003 Enterprise Edition SP1
Compiler:	Intel C++ 8.0 build 20040714Z, Intel Fortran 8.1 build 20041019Z, PGI Fortran compiler 5.2-4 for Windows XP, AMD Core Math library Version 2.1 (ACML), Microsoft Visual Studio .NET 7.0.9466 (libraries), MicroQuill Smartheap Library 7.0
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
+ACML is linking with AMD Core Math Library V2.1
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.
The Intel C++ 8.0 and the Intel Fortran 8.1 compilers are setup in the following order:
   "c:program filesintel ortrancompiler80ia32 inifortvars.bat"
   "c:program filesintelcppcompiler80ia32 iniclvars.bat"
To make sure that the correct libraries are selected, the following link option is
added for the peak runs where Intel Fortran 8.1 compiler is used:
    LDOPT = -Fe$@ -link -LIBPATH:"c:program filesintel ortrancompiler80ia32lib"
 (denoted by +LIBPATH:INTEL8.1 in the optimization flags listed below)
Portability:
  178.galgel: -Mfixed
Baseline: C      : icl   -fast -arch:SSE2 -QaxW +FDO
Baseline: Fortran: pgf90 -fastsse -Mipa=fast,inline
```

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Notes/Tuning Information (Continued)

```
 Peak tuning:
 168.wupwise:       pgf90 basepeak=yes
 171.swim:         ifort -Qipo  -O3  -QaxN -QxW +FDO -Qunroll0     +LIBPATH:INTEL8.1
 172.mgrid:         pgf90 basepeak=yes
 173.applu:        ifort -Qipo  -O3  -QaxN -QxW +FDO -auto         +LIBPATH:INTEL8.1
 177.mesa:          icl   -Qipo -arch:SSE2       +FDO -Qunroll1 -Qansi_alias
                        -Qoption,f,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
 179.art:           icl   -Qipo             -Zp4 +FDO
 183.equake:        icl   basepeak=yes
 178.galgel:        pgf90 -fastsse -Mipa=fast,safe RM_SOURCES=lapak.f90 -Munix +ACML
 187.facerec:      ifort -Qipo             -QxW +FDO -Qunroll3     +LIBPATH:INTEL8.1
                        -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
 188.ammp:          icl   -Oa   -arch:SSE2  -Zp4      -Qansi_alias
 189.lucas:        ifort -Qipo             -QxW      -Qunroll1     +LIBPATH:INTEL8.1
 191.fma3d:        ifort -Qipo       -QaxN -QxW +FDO -Qansi-alias- +LIBPATH:INTEL8.1
 200.sixtrack:      pgf90 basepeak=yes
 301.apsi:          pgf90 basepeak=yes
Bios Rev 1.00.2895
The start /b /wait /affinity command is used to bind CPU(s) to processes.
The tested system can be assembled using the SSI EEB v3.5 footprint, an
Antec True 550 EPS12V 550W power supply, and a PCI-e graphics card.
```