CFP2000 Result

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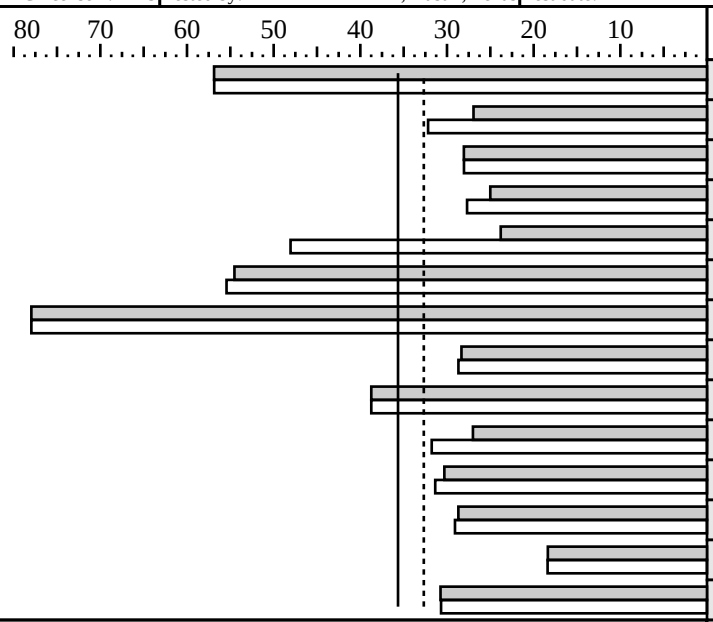
Advanced Micro Devices

TYAN Tomcat K8E (S2865), AMD Opteron(TM) 185

SPECfp_rate2000 = 35.7

SPECfp_rate_base2000 = 32.7

SPEC license #: 49 | Tested by: AMD, Austin, Texas | Test date: Feb-2006 | Hardware Avail: Mar-2006 | Software Avail: Oct-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	65.3	56.9	2	65.3	56.9
171.swim	2	267	26.9	2	223	32.2
172.mgrid	2	149	28.1	2	149	28.0
173.applu	2	195	25.0	2	176	27.7
177.mesa	2	136	23.8	2	67.6	48.1
178.galgel	2	123	54.5	2	121	55.4
179.art	2	77.4	78.0	2	77.4	78.0
183.equake	2	106	28.3	2	105	28.7
187.facerec	2	114	38.7	2	114	38.7
188.ammp	2	189	27.0	2	161	31.8
189.lucas	2	153	30.3	2	148	31.4
191.fma3d	2	170	28.7	2	168	29.1
200.sixtrack	2	139	18.4	2	139	18.4
301.apsi	2	196	30.7	2	197	30.7

Hardware

CPU:	AMD Opteron(TM) 185 (939-pin)
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1
Parallel:	no
Primary Cache:	64KBI + 64KBD (on chip) per core
Secondary Cache:	1024KB (I+D) (on chip) per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	2x512MB, DDR400 CL2
Disk Subsystem:	SATA, 250 GB
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise edition SP1 (32-bit)
Compiler:	Intel C++ 9.0 build 20050912Z for IA32, Intel Fortran 9.0 build 20050912Z for IA32, Microsoft Visual Studio .NET 7.0.9466 (libraries) PGI Fortran compiler 6.0-5 for Windows XP, PGI C compiler 6.0-5 for Windows XP, ACML Version 2.5.3 (bundled with PGI 6.0-5)
File System:	NTFS
System State:	default

Notes/Tuning Information

```
+FDO:
 icl, ifort  : PASS1=-Qprof_gen  PASS2=-Qprof_use
 pgf90       : PASS1=-Mpfi       PASS2=-Mpfo
ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
pgf90 is the PGI Fortran 90 compiler.
pgcc is the PGI C compiler.
ONESTEP is set to 1 for every compile with the PGI compilers.
Portability:
178.galgel:                 -Mfixed
Baseline: C      :  pgcc    -fastsse -Mipa=fast,inline
Baseline: Fortran:  pgf90   -fastsse -Mipa=fast,inline +FDO
Peak tuning:
168.wupwise:        pgf90   -fastsse -Mipa=fast,inline -Mnovect
171.swim:           ifort   -Qipo  -O3  -QaxN -QxW -Qunroll0 +FDO
172.mgrid:          pgf90   -fastsse -Mipa=fast,inline
173.applu:          ifort   -Qipo  -O3 -QaxN -QxW -auto +FDO
177.mesa:           icl     -Qipo -QxW -Qunroll1 -Qansi_alias +FDO
```

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Notes/Tuning Information (Continued)

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                        -Qoption,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
 178.galgel:          pgf90   -fastsse -Mipa=fast,safe -Munix -lacml
                              RM_SOURCES=lapak.f90
 179.art:             pgcc     basepeak=yes
 183.equake:          icl     -O3 -Qipo -QxW +FDO
 187.facerec:         pgf90   basepeak=1
 188.ammp:            icl     -Oa   -QxW  -Zp4 -Qansi_alias
 189.lucas:           ifort   -Qipo -QxW -Qunroll1
 191.fma3d:           pgf90   -Mipa=fast,inline -fastsse -Mnovect +FDO
 200.sixtrack:        pgf90   -fastsse -Mipa=fast,inline
 301.apsi:            pgf90   -fastsse -Mipa=fast,inline
Corsair CMX512-3200XL memory used in Dual Channel configuration.
Memory timings manually set in BIOS: Command Rate=1T
BIOS rev 3.00
The tested system can be assembled using a standard ATX case and an Antec True 550
watt EPS12V Power Supply.
```