CFP2000 Result

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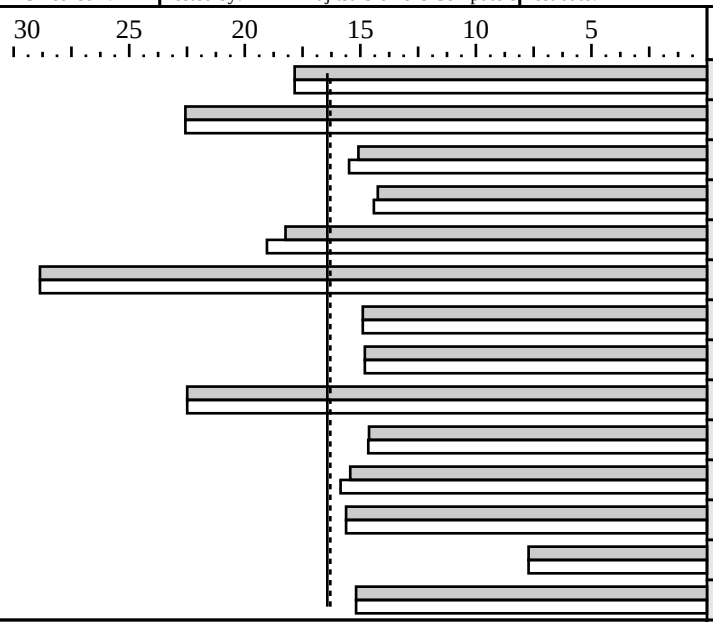
Fujitsu Siemens Computers

CELSIUS V810 (Opteron 248 2.2 GHz SuSE 9.0 for AMD64)

SPECfp_rate2000 = 16.4

SPECfp_rate_base2000 = 16.3

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Feb-2004 | Hardware Avail: Dec-2003 | Software Avail: Nov-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	104	17.8	1	104	17.8
171.swim	1	159	22.6	1	159	22.6
172.mgrid	1	138	15.1	1	135	15.5
173.applu	1	171	14.2	1	169	14.4
177.mesa	1	89.0	18.2	1	85.3	19.0
178.galgel	1	117	28.9	1	117	28.9
179.art	1	203	14.9	1	203	14.9
183.equake	1	102	14.8	1	102	14.8
187.facerec	1	98.0	22.5	1	98.0	22.5
188.ammp	1	175	14.6	1	174	14.7
189.lucas	1	150	15.4	1	146	15.9
191.fma3d	1	156	15.6	1	156	15.6
200.sixtrack	1	165	7.72	1	165	7.72
301.apsi	1	199	15.2	1	199	15.2

Hardware

CPU:	AMD Opteron (TM) 248
CPU MHz:	2200
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:	1024KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	--
Memory:	4 x 1 GB PC2700 DDR SDRAM, ECC Registered
Disk Subsystem:	Maxtor ST020H2
Other Hardware:	None

Software

Operating System:	SuSE Linux 9.0 (AMD64) 2.4.21-193-default
Compiler:	PGI Fortran 5.1-3 SuSE gcc 3.3.1 compiler (from SuSE Linux 9.0)
File System:	Linux/reiserfs
System State:	Multi-user SuSE Run level 3

Notes/Tuning Information

```
+FDO: PASS1=-fprofile-arcs PASS2=-fbranch-probabilities
pgf90 is the PGI Fortran 5.1-3 compiler
gcc is the SuSE gcc 3.3.1 compiler
Portability:
                PORTABILITY=-DSPEC_CPU2000_LP64 is applied to all the C benchmarks.
  178.galgel:    -Mfixed
Baseline: Fortran pgf90 -fastsse  -Mipa=fast
Peak tuning:
  168.wupwise:   basepeak=true
  171.swim:      basepeak=true
  172.mgrid:     pgf90 -fast -Mipa=fast
  173.applu:     pgf90 -fast -Mipa=fast
  177.mesa:      gcc -O3 -funroll-all-loops -finline-limit=2000 +FDO
  178.galgel:    basepeak=true
  179.art:       basepeak=true
  183.equake:    basepeak=true
  187.facerec:   basepeak=true
```

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Notes/Tuning Information (Continued)

```
  188.ammp:       gcc -O3 -funroll-all-loops -ffast-math -finline-limit=2000 +FDO
  189.lucas:      pgf90 -fastsse -Mipa=fast -Mnosmart
  191.fma3d:      basepeak=true
  200.sixtrack:   basepeak=true
  301.apsi:       basepeak=true
ONESTEP is used for all base and peak runs

System tested with only one CPU present
BIOS default settings have been used. These include:
ECC memory checking disabled,
memory node interleave disabled, SRAT enabled.

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