CFP2000 Result

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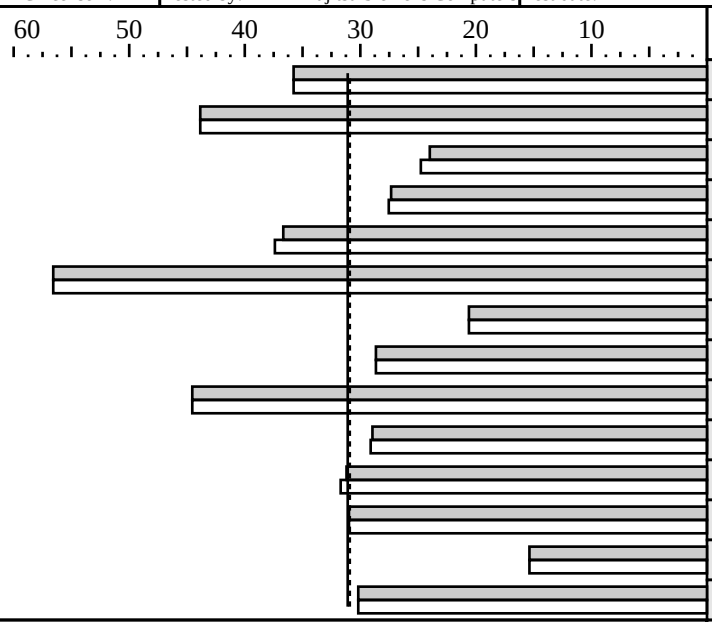
Fujitsu Siemens Computers

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

SPECfp_rate2000 = 31.1

SPECfp_rate_base2000 = 30.9

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	104	35.8	2	104	35.8
171.swim	2	164	43.9	2	164	43.9
172.mgrid	2	174	24.0	2	169	24.8
173.applu	2	178	27.3	2	177	27.5
177.mesa	2	88.6	36.7	2	86.9	37.4
178.galgel	2	119	56.6	2	119	56.6
179.art	2	293	20.6	2	293	20.6
183.equake	2	105	28.7	2	105	28.7
187.facerec	2	99.0	44.5	2	99.0	44.5
188.ammp	2	176	29.0	2	175	29.1
189.lucas	2	149	31.2	2	146	31.7
191.fma3d	2	157	31.0	2	157	31.0
200.sixtrack	2	166	15.4	2	166	15.4
301.apsi	2	200	30.2	2	200	30.2

Hardware

CPU:	AMD Opteron (TM) 248
CPU MHz:	2200
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:	1024KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	--
Memory:	8 x 1 GB PC2700 DDR SDRAM, ECC Registered
Disk Subsystem:	Maxtor 6Y160M0
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

BIOS default settings have been used. These include:
ECC memory checking disabled,
node memory interleave disabled, SRAT enabled
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please see:
http://www.fujitsu-siemens.com/countries
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