



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.amp	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)

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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>