



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.amp	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)

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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
```

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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