CFP2000 Result

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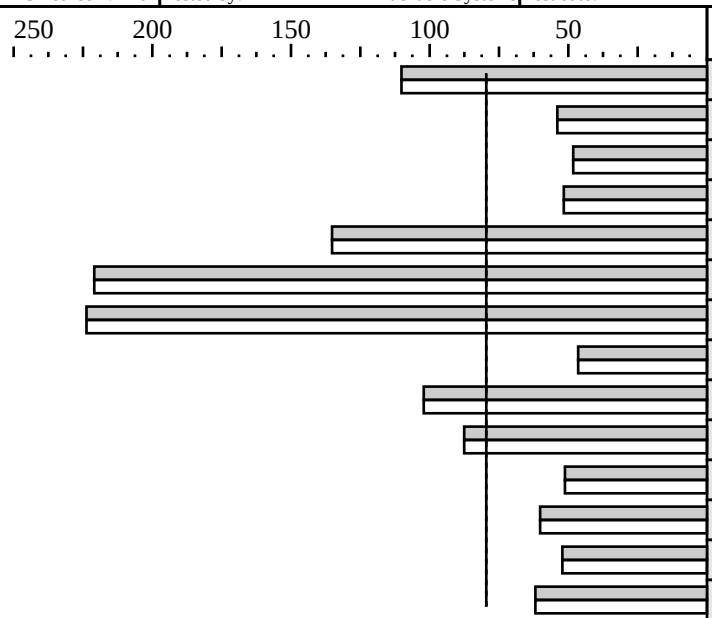
Rackable Systems
C1000-L03-25W30 (Intel Xeon 5160)

SPECfp_rate2000 = 79.6

SPECfp_rate_base2000 = 79.6

SPEC license #: 64 | Tested by: Rackable Systems | Test date: Jul-2006 | Hardware Avail: Aug-2006 | Software Avail: Jun-2006



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	67.4	110	4	67.4	110
171.swim	4	267	54.0	4	267	54.0
172.mgrid	4	173	48.2	4	173	48.2
173.applu	4	189	51.6	4	189	51.6
177.mesa	4	48.0	135	4	48.0	135
178.galgel	4	60.9	221	4	60.9	221
179.art	4	53.9	224	4	53.9	224
183.equake	4	130	46.5	4	130	46.5
187.facerec	4	86.3	102	4	86.3	102
188.ammp	4	117	87.5	4	117	87.5
189.lucas	4	181	51.2	4	181	51.2
191.fma3d	4	162	60.2	4	162	60.2
200.sixtrack	4	97.9	52.1	4	97.9	52.1
301.apsi	4	195	61.9	4	195	61.9

Hardware

CPU:	Intel(R) Xeon(R) CPU 5160 @ 3.0GHz
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chip(s)
Parallel:	No
Primary Cache:	32KB(I) + 32KB(D) on chip, per core
Secondary Cache:	4096KB(I+D) on chip, per chip, shared
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4 x 1024MB ECC FB-DIMM DDR2-667MHz
Disk Subsystem:	1 x 250GB SATA HDD
Other Hardware:	--

Software

Operating System:	Red Hat Enterprise Linux 4 ES Update 2 EM64T
Compiler:	Intel C++ 9.1.038 and Fortran Compiler 9.1.032 for EM64T
File System:	ext3
System State:	Runlevel 3

Notes/Tuning Information

```
-DSPEC_CPU2000_LP64 applied to all benchmarks
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST
253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL -DSPEC_CPU2000_GLIBC22
254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO
        -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
178.galgel: -FI for fixed-format Fortran
Portability for integer benchmarks
Optimization flags
ONESTEP=yes for all benchmarks
+FDO implies feedback-directed optimization PASS1: -prof_gen   PAS2: -prof_use
Baseline optimizations for C:   -fast -auto_ilp32 +FDO
Baseline optimizations for C++: -fast -auto_ilp32 +FDO
basepeak=yes set for all benchmarks
Portability for fp benchmarks
Optimization flags
ONESTEP=yes for all benchmarks
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Notes/Tuning Information (Continued)

+FDO implies feedback-directed optimization PASS1: -prof_gen PAS2: -prof_use
Baseline optimizations for C and Fortran: -fast +FDO
basepeak=yes set for all benchmarks
Taskset utility used to bind process to CPU(s)