# CFP2000 Result

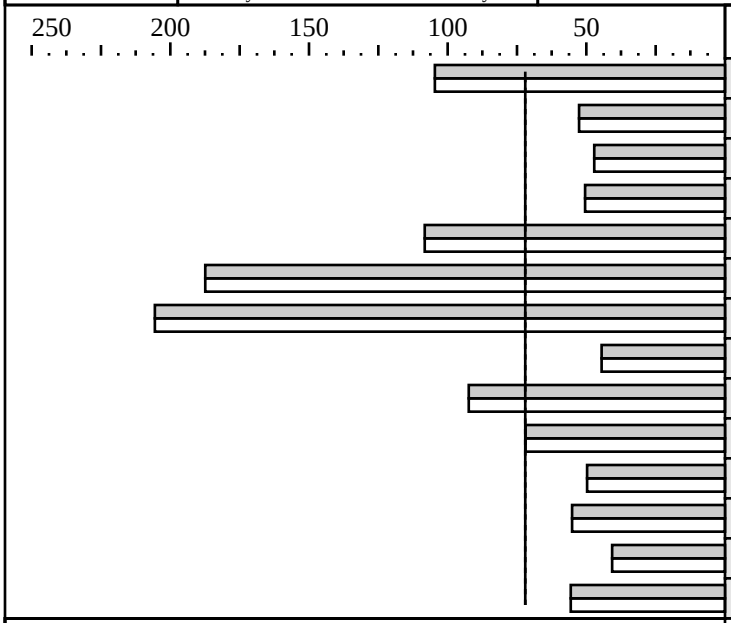


## Rackable Systems
## C1000-L03-25V23 (Intel Xeon 5148)

SPECfp_rate2000 = 72.0

SPECfp_rate_base2000 = 72.0

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 | 71.0 | 105 | 4 | 71.0 | 105 |
| 171.swim | 4 | 273 | 52.6 | 4 | 273 | 52.6 |
| 172.mgrid | 4 | 177 | 47.1 | 4 | 177 | 47.1 |
| 173.applu | 4 | 193 | 50.4 | 4 | 193 | 50.4 |
| 177.mesa | 4 | 60.0 | 108 | 4 | 60.0 | 108 |
| 178.galgel | 4 | 71.8 | 187 | 4 | 71.8 | 187 |
| 179.art | 4 | 58.7 | 206 | 4 | 58.7 | 206 |
| 183.equake | 4 | 136 | 44.5 | 4 | 136 | 44.5 |
| 187.facerec | 4 | 95.4 | 92.4 | 4 | 95.4 | 92.4 |
| 188.ammp | 4 | 142 | 71.9 | 4 | 142 | 71.9 |
| 189.lucas | 4 | 187 | 49.7 | 4 | 187 | 49.7 |
| 191.fma3d | 4 | 177 | 55.1 | 4 | 177 | 55.1 |
| 200.sixtrack | 4 | 125 | 40.7 | 4 | 125 | 40.7 |
| 301.apsi | 4 | 217 | 55.6 | 4 | 217 | 55.6 |

### Hardware

| | |
|---|---|
| CPU: | Intel(R) Xeon(R) CPU 5148 @ 2.33GHz |
| CPU MHz: | 2330 |
| 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
```

## 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)