



CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Hewlett-Packard Company
ProLiant DL385 G2 (AMD Opteron (TM) 2218)

SPECint_rate2000 = 81.3
SPECint_rate_base2000 = 73.0

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2006 Hardware Avail: Sep-2006 Software Avail: Apr-2006

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 4 | 88.6 | 73.3 | 4 | 88.6 | 73.4 |
| 175.vpr | 4 | 113 | 57.7 | 4 | 109 | 59.6 |
| 176.gcc | 4 | 61.9 | 82.5 | 4 | 62.7 | 81.4 |
| 181.mcf | 4 | 289 | 28.9 | 4 | 174 | 48.1 |
| 186.crafty | 4 | 44.4 | 105 | 4 | 44.3 | 105 |
| 197.parser | 4 | 150 | 55.8 | 4 | 119 | 70.2 |
| 252.eon | 4 | 47.1 | 128 | 4 | 41.9 | 144 |
| 253.perlbnk | 4 | 105 | 79.6 | 4 | 92.3 | 90.5 |
| 254.gap | 4 | 67.6 | 75.5 | 4 | 67.4 | 75.7 |
| 255.vortex | 4 | 75.3 | 117 | 4 | 71.0 | 124 |
| 256.bzip2 | 4 | 104 | 66.9 | 4 | 104 | 66.9 |
| 300.twolf | 4 | 217 | 64.1 | 4 | 172 | 81.1 |

Hardware

CPU: AMD Opteron (TM) 2218
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Parallel: No
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1024 KB I+D on chip per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16 GB (8x2048 MB PC2-5300P CL5.0)
 Disk Subsystem: 1x36 GB 10 K SAS
 Other Hardware:

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 3
 SuSE kernel 2.6.5-7.244-smp
 Compiler: PathScale EKOPATH(TM) Compiler Suite, Release 2.4
 File System: Linux/ext2
 System State: Multi-user run level 3

Notes/Tuning Information

```
+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata
Base tuning for C programs: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
 186.crafty: -DLINUX_i386
 252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
 253.perlbnk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
              -DSPEC_CPU2000_LP64
 254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
           -DSYS_HAS_CALLOC_PROTO -DSPEC_CPU2000_LP64
 255.vortex: -DSPEC_CPU2000_LP64
Peak tuning:
 164.gzip: -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
 175.vpr: -O3 -ipa -m32 +FDO
 176.gcc: -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO
 181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
 186.crafty: -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
 197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
 252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
           -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
```



CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Hewlett-Packard Company
ProLiant DL385 G2 (AMD Opteron (TM) 2218)

SPECint_rate2000 = 81.3
SPECint_rate_base2000 = 73.0

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2006 Hardware Avail: Sep-2006 Software Avail: Apr-2006

Notes/Tuning Information (Continued)

```
-LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
253.perlbnk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
              -fno-math-errno -IPA:plimit=10000 +FDO
254.gap:      -Ofast -IPA:min_hotness=5 -OPT:alias=disjoint -CG:movnti=1 +FDO
255.vortex:   -Ofast -OPT:goto=off +FDO
256.bzip2:    basepeak=true
300.twolf:    -O2 -CG:gcm=off:p2align_freq=100000
              -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
              -WOPT:mem_opnds=on -m32 +FDO
```

BIOS Configuration Notes

Node Interleaving Disabled

Other Configuration Notes

Taskset utility used to bind process to CPU(s)