



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL35p (AMD Opteron (TM) 250)

SPECint2000 = 1618
SPECint_base2000 = 1443

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jan-2005 Hardware Avail: Feb-2005 Software Avail: Jan-2005

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip | 1400 | 98.8 | 1417 | 98.4 | 1422 | |
| 175.vpr | 1400 | 120 | 1164 | 117 | 1195 | |
| 176.gcc | 1100 | 69.0 | 1593 | 69.0 | 1593 | |
| 181.mcf | 1800 | 252 | 714 | 155 | 1163 | |
| 186.crafty | 1000 | 48.4 | 2066 | 48.3 | 2070 | |
| 197.parser | 1800 | 168 | 1074 | 138 | 1307 | |
| 252.eon | 1300 | 64.0 | 2031 | 53.2 | 2444 | |
| 253.perlbmk | 1800 | 111 | 1624 | 101 | 1776 | |
| 254.gap | 1100 | 74.9 | 1468 | 72.0 | 1527 | |
| 255.vortex | 1900 | 80.6 | 2357 | 74.6 | 2546 | |
| 256.bzip2 | 1500 | 113 | 1326 | 113 | 1326 | |
| 300.twolf | 3000 | 232 | 1296 | 178 | 1690 | |

Hardware

CPU: AMD Opteron (TM) 250
 CPU MHz: 2400
 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: N/A
 Memory: 2x2048MB PC3200 DDR 400
 Disk Subsystem: 1x60GB ATA100
 Other Hardware:

Software

Operating System: SuSE Linux Enterprise Server 9 for AMD64
 SuSE kernel 2.6.5-7.97-smp
 Compiler: PathScale EKO Compiler Suite, Release 1.4
 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: -O3 -ipa +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
 186.crafty: -DLINUX_i386
 252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64 srcalt=fmax_errno
 253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
              -DSPEC_CPU2000_GLIBC22 -DSPEC_CPU2000_LP64
 254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
           -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
           -DSPEC_CPU2000_LP64
 255.vortex: -DSPEC_CPU2000_LP64 srcalt=closed_files
 300.twolf: -DHAVE_SIGNED_CHAR
Peak tuning:
 164.gzip: -Ofast +FDO
 175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000 +FDO
 loader: -INLINE:aggressive=on
         -IPA:space=300:plimit=10000:callee_limit=5000:linear=on
 176.gcc: basepeak=true
 181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
```



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Notes/Tuning Information (Continued)

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186.crafty: -Ofast +FDO
197.parser: -O3 -ipa -m32 +FDO
  loader: -IPA:ctype=on
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -OPT:treeheight=on
  -TENV:X=4:frame_pointer=off -fno-exceptions -LNO:fu=10:full_unroll_outer=on
  +FDO
  loader: -IPA:plimit=4000:pu_reorder=1
253.perlbnk: -O3 -ipa +FDO
  loader: -IPA:plimit=10000
254.gap: -O3 -ipa -OPT:transform_to_memlib=on
255.vortex: -Ofast -IPA:space=70:plimit=3000
  -OPT:goto=off:unroll_analysis=off:unroll_size=0:unroll_times_max=8
  -LNO:opt=0 -TENV:X=4 +FDO
256.bzip2: basepeak=true
300.twolf: -O2 -OPT:unroll_times_max=8:unroll_size=256:alias=disjoint:Ofast
  -CG:gcm=off:p2align_freq=100000 -WOPT:mem_opnds=on -m32 +FDO

```

BIOS Configuration Notes
Node Interleaving Disabled