



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL385 (AMD Opteron (TM) 252)

SPECint_rate2000 = 40.4
SPECint_rate_base2000 = 36.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	88.6	36.7	2	88.5	36.7
175.vpr	2	114	28.6	2	111	29.2
176.gcc	2	63.6	40.1	2	63.6	40.1
181.mcf	2	252	16.5	2	159	26.3
186.crafty	2	44.3	52.4	2	44.3	52.4
197.parser	2	153	27.3	2	125	33.4
252.eon	2	57.3	52.6	2	48.3	62.5
253.perlbnk	2	101	41.2	2	93.6	44.6
254.gap	2	68.5	37.3	2	65.3	39.1
255.vortex	2	75.4	58.4	2	69.2	63.7
256.bzip2	2	106	32.9	2	106	32.9
300.twolf	2	219	31.8	2	165	42.2

Hardware

CPU: AMD Opteron (TM) 252
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 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: 8x2048MB PC3200 DDR 400
 Disk Subsystem: 1x36.4GB Ultra320 SCSI
 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.perlbnk: -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.perlbmk: -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