



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL585 (AMD Opteron (TM) 852)

SPECint_rate2000 = 76.3
SPECint_rate_base2000 = 67.4

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	4	90.3	71.9	4	90.0	72.2
175.vpr	4	124	52.5	4	121	53.6
176.gcc	4	67.1	76.0	4	67.1	76.0
181.mcf	4	323	25.8	4	186	44.9
186.crafty	4	44.8	104	4	44.8	104
197.parser	4	165	50.6	4	131	63.5
252.eon	4	58.9	102	4	49.0	123
253.perlbnk	4	105	79.3	4	97.4	85.8
254.gap	4	72.6	70.3	4	69.5	73.5
255.vortex	4	80.3	110	4	74.5	118
256.bzip2	4	112	62.1	4	112	62.1
300.twolf	4	241	57.7	4	176	79.1

Hardware

CPU: AMD Opteron (TM) 852
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 2,4
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16x2048MB PC2700 CL2.5
 Disk Subsystem: 1x36.4GB 15K 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)

```
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