



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant BL25p (AMD Opteron (TM) 252)

SPECint\_rate2000 = 20.5  
SPECint\_rate\_base2000 = 18.3

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	1	88.6	18.3	1	89.1	18.2
175.vpr	1	111	14.6	1	108	15.0
176.gcc	1	62.5	20.4	1	62.5	20.4
181.mcf	1	236	8.85	1	150	13.9
186.crafty	1	44.1	26.3	1	44.2	26.3
197.parser	1	151	13.8	1	124	16.9
252.eon	1	57.6	26.2	1	48.5	31.1
253.perlbnk	1	102	20.5	1	94.2	22.2
254.gap	1	67.2	19.0	1	64.4	19.8
255.vortex	1	74.2	29.7	1	68.6	32.1
256.bzip2	1	103	16.8	1	103	16.8
300.twolf	1	214	16.2	1	163	21.3

### Hardware

CPU: AMD Opteron (TM) 252  
 CPU MHz: 2600  
 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: 4x2048MB PC3200 DDR 400  
 Disk Subsystem: 2x18.2GB 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/ext3  
 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