



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant BL35p (AMD Opteron (TM) 275)

SPECint\_rate2000 = 33.0  
SPECint\_rate\_base2000 = 29.8

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Aug-2005 | Hardware Avail: Jun-2005 | Software Avail: Apr-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	106	30.5	2	105	31.0
175.vpr	2	139	23.3	2	133	24.4
176.gcc	2	82.5	31.0	2	82.5	31.0
181.mcf	2	372	11.2	2	229	18.2
186.crafty	2	53.6	43.3	2	53.4	43.4
197.parser	2	181	23.1	2	146	28.6
252.eon	2	62.5	48.2	2	55.8	54.1
253.perlbnk	2	120	34.8	2	113	37.1
254.gap	2	82.7	30.8	2	83.1	30.7
255.vortex	2	87.3	50.5	2	85.1	51.8
256.bzip2	2	126	27.6	2	126	27.6
300.twolf	2	255	27.3	2	194	35.8

### Hardware

CPU: AMD Opteron (TM) 275  
 CPU MHz: 2200  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD (on chip) per core  
 Secondary Cache: 1024KB(I+D) (on chip) per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2x2048MB PC3200 CL3.0  
 Disk Subsystem: 1x60GB ATA100 5400RPM  
 Other Hardware:

### Software

Operating System: SuSE Linux Enterprise Server 9 (x86\_64) SP 1  
 SuSE kernel 2.6.5-7.139-smp  
 Compiler: PathScale EKO Compiler Suite, Release 2.1  
 AMD Core Math Library 2.5.1  
 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
Peak tuning:
164.gzip: -Ofast
175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000 -INLINE:aggressive=on
          -IPA:space=300:plimit=10000:callee_limit=5000:linear=on +FDO
176.gcc: basepeak=true
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32
186.crafty: -Ofast
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
```



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## Notes/Tuning Information (Continued)

```

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
              -IPA:plimit=4000:pu_reorder=1 +FDO
253.perlbnk:  -O3 -ipa -IPA:plimit=10000 +FDO
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
256.bzip2:    basepeak=true
300.twolf:    -O2 -OPT:unroll_times=8:unroll_size=256:alias=disjoint:Ofast
              -CG:gcm=off:p2align_freq=100000 -WOPT:mem_opnds=on -m32

```

BIOS Configuration Notes  
Node Interleaving Disabled

Other Configuration Notes  
Taskset utility used to bind process to CPU(s)