



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant DL385 (AMD Opteron (TM) 275)

SPECint2000 = **1518**  
SPECint\_base2000 = **1380**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	106	1323	104	1347	
175.vpr	1400	128	1090	124	1131	
176.gcc	1100	71.5	1539	71.5	1539	
181.mcf	1800	262	686	167	1078	
186.crafty	1000	53.4	1872	53.5	1870	
197.parser	1800	170	1060	143	1257	
252.eon	1300	62.1	2095	55.8	2329	
253.perlbnk	1800	120	1503	112	1613	
254.gap	1100	74.7	1473	74.6	1474	
255.vortex	1900	86.4	2200	84.2	2257	
256.bzip2	1500	120	1253	120	1253	
300.twolf	3000	242	1240	187	1605	

### Hardware

CPU: AMD Opteron (TM) 275  
 CPU MHz: 2200  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 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: 4x2048MB PC3200 DDR CL3.0  
 Disk Subsystem: 1x36GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: SuSE Linux Enterprise Server 9 (x86\_64) SP 1  
 SuSE kernel 2.6.5-7.139-default  
 Compiler: PathScale EKO Compiler Suite, Release 2.1  
 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 +FDO
 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 +FDO
 186.crafty: -Ofast +FDO
 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 +FDO
255.vortex:   -Ofast -IPA:space=70:plimit=3000
              -OPT:goto=off:unroll_analysis=off:unroll_size=0:unroll_times_max=8 +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

### Other Configuration Notes

Taskset utility used to bind process to CPU(s)  
Single-processor kernel was used