



# CINT2000 Result

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

SPECint2000 = 1745  
SPECint\_base2000 = 1558

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	88.9	1574	88.8	1577	
175.vpr	1400	114	1232	111	1259	
176.gcc	1100	62.5	1759	62.5	1759	
181.mcf	1800	250	721	158	1142	
186.crafty	1000	44.2	2264	44.2	2263	
197.parser	1800	153	1174	125	1436	
252.eon	1300	57.6	2258	48.4	2684	
253.perlbnk	1800	102	1766	93.8	1918	
254.gap	1100	68.5	1607	65.4	1681	
255.vortex	1900	75.7	2510	69.5	2734	
256.bzip2	1500	106	1420	106	1420	
300.twolf	3000	220	1366	163	1835	

### 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: 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)

```
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