



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL585 (AMD Opteron (TM) 850)

SPECint\_rate2000 = 67.6  
SPECint\_rate\_base2000 = 60.7

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Sep-2004 Hardware Avail: Sep-2004 Software Avail: Sep-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	98.0	66.3	4	97.1	66.9
175.vpr	4	136	47.7	4	133	48.7
176.gcc	4	72.1	70.8	4	72.1	70.8
181.mcf	4	367	22.7	4	217	38.5
186.crafty	4	48.3	96.1	4	48.0	96.7
197.parser	4	169	49.3	4	148	56.4
252.eon	4	63.8	94.6	4	52.7	115
253.perlbnk	4	124	67.1	4	117	71.4
254.gap	4	79.3	64.3	4	79.3	64.3
255.vortex	4	105	83.8	4	98.6	89.4
256.bzip2	4	123	56.7	4	123	56.7
300.twolf	4	262	53.2	4	197	70.6

### Hardware

CPU: AMD Opteron (TM) 850  
 CPU MHz: 2400  
 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 8 for AMD64 (SP3)  
 SuSE kernel 2.4.21-143-numa  
 Compiler: PathScale EKO Compiler Suite, Release 1.3  
 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:
175.vpr: -DSPEC_CPU2000
181.mcf: -DWANT_STDC_PROTO
186.crafy: -DLINUX_i386 -DSPEC_CPU2000
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
300.twolf: -DSPEC_CPU2000 -DHAVE_SIGNED_CHAR
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=yes
```



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## Notes/Tuning Information (Continued)

```

181.mcf:          -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty:      -Ofast +FDO
197.parser:      -O3 -ipa -m32 -IPA:ctype=on +FDO
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=1
                +FDO -IPA:plimit=4000:pu_reorder=1
253.perlbnk:     -O3 -ipa -TENV:X=3 +FDO -IPA:min_hotness=5:plimit=20000
254.gap:         basepeak=yes
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=yes
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)

```