**CINT2000 Result**

**Hewlett-Packard Company**  
ProLiant DL585 (AMD Opteron (TM) 854)

**SPECint_rate2000 = 83.9**  
**SPECint_rate_base2000 = 74.5**

<table>
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<tr>
<th>Benchmark</th>
<th>Base Copies</th>
<th>Base Runtime</th>
<th>Base Ratio</th>
<th>Copies</th>
<th>Runtime</th>
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</table>

**Hardware**

- **CPU:** AMD Opteron (TM) 854
- **CPU MHz:** 2800
- **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 PC3200 CL3.0
- **Disk Subsystem:** 1x36.4GB 15K Ultra320 SCSI

**Software**

- **Operating System:** SuSE Linux Enterprise Server 9 (x86_64) SP 1
- **Compiler:** PathScale EKOPath(TM) 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: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
- **176.gcc:** srcalt=64bitgcc
- **186.crafty:** -DLINUX_i386
- **252.eon:** -DHAS_ERRLIST -DSPEC_CPU2000_LP64 srcalt=fmax_errno
- **254.gap:** -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_MALLOC_PROTO -DSPEC_CPU2000_LP64
- **255.vortex:** -DSPEC_CPU2000_LP64 srcalt=closed_files

Peak tuning:
- **164.gzip:** -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
- **175.vpr:** -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000 -INLINE:aggressive=on -IPA:space=300:plimit=10000:caller_limit=5000:linear=on +FDO
- **176.gcc:** -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO
- **181.mcf:** -O3 -IPA:field_reorder=on -m32 +FDO
- **186.crafty:** -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
Notes/Tuning Information (Continued)

197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon:  -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
          -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
          -LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
253.perlbmk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
              -fno-math-errno -IPA:plimit=10000 +FDO
254.gap:    -Ofast -IPA:min_hotness=5 -OPT:alias=disjoint -CG:movnti=1 +FDO
255.vortex: -Ofast -OPT:goto=off +FDO
256.bzip2:  basepeak=true
300.twolf:  -O2 -CG:gcm=off:p2align_freq=100000
          -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
          -WOPT:mem_opnds=on -m32 +FDO

BIOS Configuration Notes
Node Interleaving Disabled
Other Configuration Notes
   Taskset utility used to bind process to CPU(s)