



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company
ProLiant DL585 (AMD Opteron (TM) 875)

SPECint_rate2000 = 67.0
SPECint_rate_base2000 = 60.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	106	61.1	4	106	61.3
175.vpr	4	134	48.3	4	131	49.5
176.gcc	4	80.5	63.4	4	80.5	63.4
181.mcf	4	344	24.3	4	213	39.1
186.crafty	4	53.5	86.8	4	53.4	86.9
197.parser	4	179	46.7	4	145	57.7
252.eon	4	63.4	95.1	4	57.7	105
253.perlbnk	4	122	68.6	4	111	75.4
254.gap	4	82.0	62.3	4	81.5	62.6
255.vortex	4	88.4	99.7	4	80.0	110
256.bzip2	4	125	55.5	4	125	55.5
300.twolf	4	253	55.1	4	195	71.5

Hardware

CPU: AMD Opteron (TM) 875
 CPU MHz: 2200
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/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: 8x2048MB PC3200 CL3.0
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI
 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 2.0
 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
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
```



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company
ProLiant DL585 (AMD Opteron (TM) 875)

SPECint_rate2000 = 67.0
SPECint_rate_base2000 = 60.2

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

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.perlbnk: -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