



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company
ProLiant BL35p (AMD Opteron (TM) 250)

SPECint_rate2000 = 37.4
SPECint_rate_base2000 = 33.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	98.4	33.0	2	98.1	33.1
175.vpr	2	120	27.1	2	117	27.7
176.gcc	2	68.8	37.1	2	68.8	37.1
181.mcf	2	263	15.9	2	162	25.8
186.crafty	2	48.5	47.9	2	48.6	47.8
197.parser	2	168	24.9	2	138	30.3
252.eon	2	63.8	47.3	2	52.9	57.0
253.perlbnk	2	111	37.7	2	101	41.2
254.gap	2	75.1	34.0	2	72.2	35.3
255.vortex	2	80.9	54.5	2	74.4	59.3
256.bzip2	2	113	30.8	2	113	30.8
300.twolf	2	231	30.1	2	180	38.8

Hardware

CPU: AMD Opteron (TM) 250
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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: 4x2048MB PC3200 DDR 400
Disk Subsystem: 1x60GB ATA100
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
```



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company
ProLiant BL35p (AMD Opteron (TM) 250)

SPECint_rate2000 = 37.4
SPECint_rate_base2000 = 33.4

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