



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL385 (AMD Opteron (TM) 275)

SPECint_rate2000 = 17.6
SPECint_rate_base2000 = 16.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	106	15.4	1	104	15.6
175.vpr	1	128	12.6	1	124	13.1
176.gcc	1	71.5	17.8	1	71.5	17.8
181.mcf	1	262	7.96	1	167	12.5
186.crafty	1	53.4	21.7	1	53.5	21.7
197.parser	1	170	12.3	1	143	14.6
252.eon	1	62.1	24.3	1	55.8	27.0
253.perlbnk	1	120	17.4	1	112	18.7
254.gap	1	74.7	17.1	1	74.6	17.1
255.vortex	1	86.4	25.5	1	84.2	26.2
256.bzip2	1	120	14.5	1	120	14.5
300.twolf	1	242	14.4	1	187	18.6

Hardware

CPU: AMD Opteron (TM) 275
 CPU MHz: 2200
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 64KBI + 64KBD (on chip) per core
 Secondary Cache: 1024KB(I+D) (on chip) per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4x2048MB PC3200 DDR CL3.0
 Disk Subsystem: 1x36GB 15K Ultra320 SCSI
 Other Hardware:

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 1
 SuSE kernel 2.6.5-7.139-default
 Compiler: PathScale EKO 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: -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
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=true
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -Ofast +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
```



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Notes/Tuning Information (Continued)

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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
              -IPA:plimit=4000:pu_reorder=1 +FDO
253.perlbnk:  -O3 -ipa -IPA:plimit=10000 +FDO
254.gap:      -O3 -ipa -OPT:transform_to_memlib=on +FDO
255.vortex:   -Ofast -IPA:space=70:plimit=3000
              -OPT:goto=off:unroll_analysis=off:unroll_size=0:unroll_times_max=8 +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

Other Configuration Notes

Taskset utility used to bind process to CPU(s)
Single-processor kernel was used