CINT2000 Result

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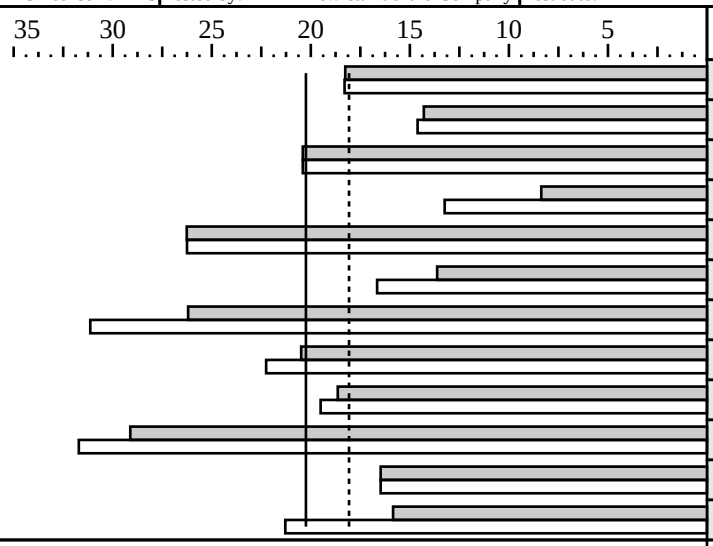
Hewlett-Packard Company
ProLiant DL385 (AMD Opteron (TM) 252)

SPECint_rate2000 = 20.2

SPECint_rate_base2000 = 18.1

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	1	88.9	18.3	1	88.8	18.3
175.vpr	1	114	14.3	1	111	14.6
176.gcc	1	62.5	20.4	1	62.5	20.4
181.mcf	1	250	8.37	1	158	13.2
186.crafty	1	44.2	26.3	1	44.2	26.2
197.parser	1	153	13.6	1	125	16.7
252.eon	1	57.6	26.2	1	48.4	31.1
253.perlbmk	1	102	20.5	1	93.8	22.3
254.gap	1	68.5	18.6	1	65.4	19.5
255.vortex	1	75.7	29.1	1	69.5	31.7
256.bzip2	1	106	16.5	1	106	16.5
300.twolf	1	220	15.8	1	163	21.3

Hardware

CPU:	AMD Opteron (TM) 252
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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:	8x2048MB PC3200 DDR 400
Disk Subsystem:	1x36.4GB Ultra320 SCSI
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.perlbmk: -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
```

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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.perlbmk: -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
```