CINT2000 Result

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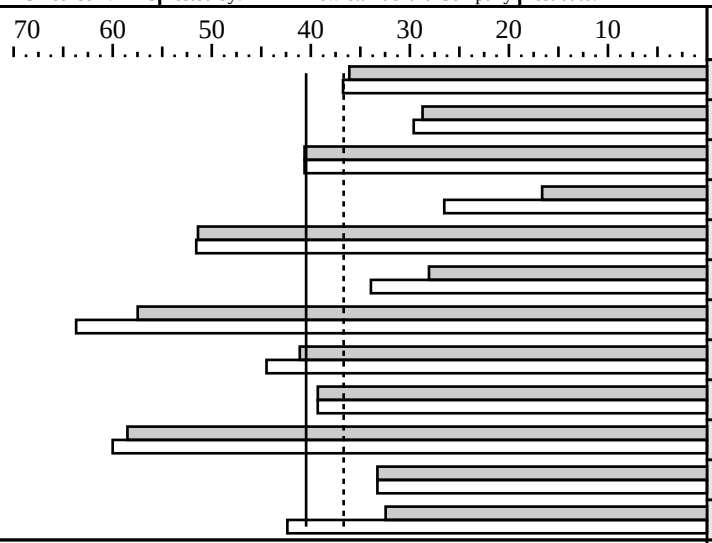
Hewlett-Packard Company

ProLiant BL45p (AMD Opteron (TM) 852)

SPECint_rate2000 = 40.5

SPECint_rate_base2000 = 36.7

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	89.9	36.1	2	88.4	36.7
175.vpr	2	113	28.7	2	110	29.6
176.gcc	2	62.8	40.6	2	62.8	40.6
181.mcf	2	251	16.6	2	157	26.5
186.crafty	2	45.1	51.4	2	45.0	51.6
197.parser	2	149	28.1	2	123	33.9
252.eon	2	52.5	57.5	2	47.4	63.7
253.perlbmk	2	102	41.1	2	93.9	44.5
254.gap	2	64.9	39.3	2	64.9	39.3
255.vortex	2	75.3	58.5	2	73.5	60.0
256.bzip2	2	105	33.3	2	105	33.3
300.twolf	2	215	32.4	2	164	42.4

Hardware

CPU:	AMD Opteron (TM) 852
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 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:	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 2.1
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.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 -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
```

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Notes/Tuning Information (Continued)

```
    186.crafty:  -Ofast +FDO
    197.parser:  -O3 -ipa -m32 -IPA:ctype=on +FDO
    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.perlbmk: -O3 -ipa -IPA:plimit=10000 +FDO
    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
```