CINT2000 Result

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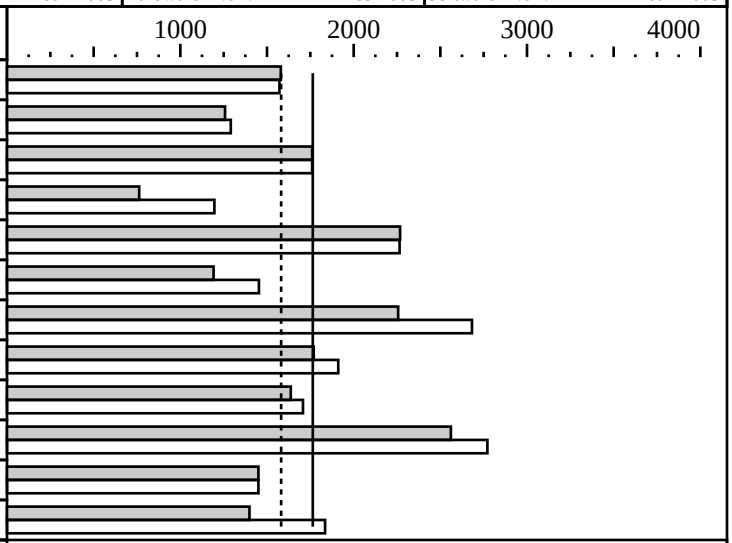
Hewlett-Packard Company
ProLiant BL25p (AMD Opteron (TM) 252)

SPECint2000 = 1764

SPECint_base2000 = 1582

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	88.6	1580	89.1	1572
175.vpr	1400	111	1258	108	1291
176.gcc	1100	62.5	1761	62.5	1761
181.mcf	1800	236	763	150	1197
186.crafty	1000	44.1	2268	44.2	2265
197.parser	1800	151	1192	124	1453
252.eon	1300	57.6	2257	48.5	2683
253.perlbmk	1800	102	1770	94.2	1911
254.gap	1100	67.2	1637	64.4	1708
255.vortex	1900	74.2	2561	68.6	2771
256.bzip2	1500	103	1450	103	1450
300.twolf	3000	214	1399	163	1835



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:	4x2048MB PC3200 DDR 400
Disk Subsystem:	2x18.2GB 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/ext3
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
```