CINT2000 Result

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Hewlett-Packard Company

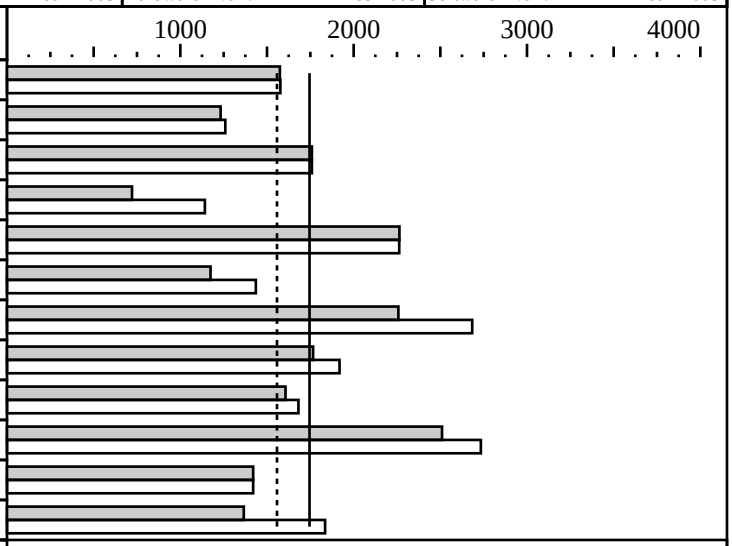
ProLiant DL385 (AMD Opteron (TM) 252)

SPECint2000 = 1745

SPECint_base2000 = 1558

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	88.9	1574	88.8	1577
175.vpr	1400	114	1232	111	1259
176.gcc	1100	62.5	1759	62.5	1759
181.mcf	1800	250	721	158	1142
186.crafty	1000	44.2	2264	44.2	2263
197.parser	1800	153	1174	125	1436
252.eon	1300	57.6	2258	48.4	2684
253.perlbmk	1800	102	1766	93.8	1918
254.gap	1100	68.5	1607	65.4	1681
255.vortex	1900	75.7	2510	69.5	2734
256.bzip2	1500	106	1420	106	1420
300.twolf	3000	220	1366	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:	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
```