CINT2000 Result

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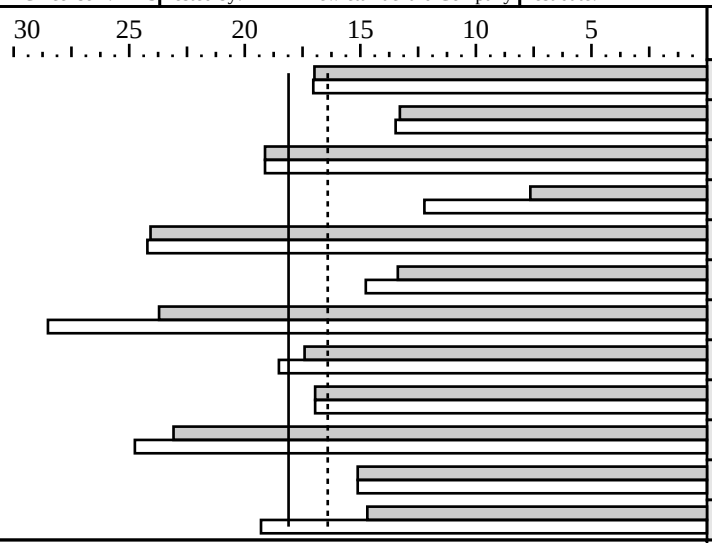
Hewlett-Packard Company

ProLiant DL145 (AMD Opteron (TM) 250)

SPECint_rate2000 = 18.1

SPECint_rate_base2000 = 16.4

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Sep-2004 | Hardware Avail: Sep-2004 | Software Avail: Sep-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	95.6	17.0	1	95.3	17.0
175.vpr	1	122	13.3	1	121	13.5
176.gcc	1	66.7	19.1	1	66.7	19.1
181.mcf	1	273	7.64	1	171	12.2
186.crafty	1	48.2	24.1	1	47.9	24.2
197.parser	1	156	13.4	1	141	14.8
252.eon	1	63.6	23.7	1	52.9	28.5
253.perlbmk	1	120	17.4	1	113	18.5
254.gap	1	75.3	17.0	1	75.3	17.0
255.vortex	1	95.5	23.1	1	89.0	24.8
256.bzip2	1	115	15.1	1	115	15.1
300.twolf	1	237	14.7	1	180	19.3

Hardware

CPU:	AMD Opteron (TM) 250
CPU MHz:	2400
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 PC2700 CL2.5
Disk Subsystem:	1x40GB ATA100
Other Hardware:	

Software

Operating System:	SuSE Linux Enterprise Server 8 for AMD64 (SP3) SuSE kernel 2.4.21-143-numa
Compiler:	PathScale EKO Compiler Suite, Release 1.3
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:
  175.vpr:      -DSPEC_CPU2000
  181.mcf:      -DWANT_STDC_PROTO
  186.crafty:    -DLINUX_i386 -DSPEC_CPU2000
  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
  300.twolf:    -DSPEC_CPU2000 -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=yes
```

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Notes/Tuning Information (Continued)

```
    181.mcf:      -O3 -ipa -IPA:field_reorder=on -m32 +FDO
    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=1
                 +FDO -IPA:plimit=4000:pu_reorder=1
    253.perlbmk:  -O3 -ipa -TENV:X=3 +FDO -IPA:min_hotness=5:plimit=20000
    254.gap:     basepeak=yes
    255.vortex:   -Ofast -IPA:space=70:plimit=3000 -LNO:opt=0 -TENV:X=4
                 -OPT:goto=off:unroll_analysis=off:unroll_size=0:unroll_times_max=8 +FDO
    256.bzip2:    basepeak=yes
    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)
```