



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL145 G2 (AMD Opteron (TM) 252)

SPECint_rate2000 = 39.5
SPECint_rate_base2000 = 35.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	89.5	36.3	2	88.1	36.9
175.vpr	2	120	27.0	2	117	27.8
176.gcc	2	63.3	40.3	2	63.3	40.3
181.mcf	2	270	15.5	2	167	25.0
186.crafty	2	44.9	51.7	2	44.7	51.9
197.parser	2	152	27.5	2	125	33.3
252.eon	2	52.7	57.3	2	47.1	64.0
253.perlbnk	2	105	40.0	2	97.8	42.7
254.gap	2	65.7	38.8	2	65.8	38.8
255.vortex	2	81.3	54.2	2	79.3	55.6
256.bzip2	2	107	32.5	2	107	32.5
300.twolf	2	211	33.0	2	164	42.5

Hardware

CPU: AMD Opteron (TM) 252
 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.perlbnk: -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
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
186.crafty: -Ofast +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
```



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Notes/Tuning Information (Continued)

```
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.perlbnk:  -O3 -ipa -IPA:plimit=10000 +FDO
254.gap:      -O3 -ipa -OPT:transform_to_memlib=on +FDO
255.vortex:   -Ofast -IPA:space=70:plimit=3000
              -OPT:goto=off:unroll_analysis=off:unroll_size=0:unroll_times_max=8
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

Other Configuration Notes
Taskset utility used to bind process to CPU(s)