



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL35p (AMD Opteron (TM) 280)

SPECint2000 = 1692
SPECint_base2000 = 1513

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2006 Hardware Avail: Mar-2006 Software Avail: Jan-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	96.2	1456	95.7	1463	[Bar chart showing ratio bars for 164.gzip]			
175.vpr	1400	117	1196	114	1225	[Bar chart showing ratio bars for 175.vpr]			
176.gcc	1100	65.3	1686	66.2	1662	[Bar chart showing ratio bars for 176.gcc]			
181.mcf	1800	257	701	158	1139	[Bar chart showing ratio bars for 181.mcf]			
186.crafty	1000	46.9	2133	45.8	2185	[Bar chart showing ratio bars for 186.crafty]			
197.parser	1800	159	1135	128	1410	[Bar chart showing ratio bars for 197.parser]			
252.eon	1300	53.5	2428	45.5	2857	[Bar chart showing ratio bars for 252.eon]			
253.perlbmk	1800	110	1638	98.4	1830	[Bar chart showing ratio bars for 253.perlbmk]			
254.gap	1100	68.4	1608	67.7	1626	[Bar chart showing ratio bars for 254.gap]			
255.vortex	1900	77.9	2438	72.6	2616	[Bar chart showing ratio bars for 255.vortex]			
256.bzip2	1500	109	1373	109	1373	[Bar chart showing ratio bars for 256.bzip2]			
300.twolf	3000	222	1351	174	1721	[Bar chart showing ratio bars for 300.twolf]			

Hardware

CPU: AMD Opteron (TM) 280
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 64KBI + 64KBD (on chip) per core
 Secondary Cache: 1024KB(I+D) (on chip) per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 2x2048MB PC3200 CL3.0
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI
 Other Hardware:

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 3
 SuSE kernel 2.6.5-7.244-default
 Compiler: PathScale EKOPATH(TM) Compiler Suite, Release 2.3
 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: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
 186.crafty: -DLINUX_i386
 252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
 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_CALLOC_PROTO -DSPEC_CPU2000_LP64
 255.vortex: -DSPEC_CPU2000_LP64
Peak tuning:
164.gzip: -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
175.vpr: -O3 -ipa -m32 +FDO
176.gcc: -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
         -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
```



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Notes/Tuning Information (Continued)

```
-LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
253.perlbnk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
              -fno-math-errno -IPA:plimit=10000 +FDO
254.gap:      -Ofast -IPA:min_hotness=5 -OPT:alias=disjoint -CG:movnti=1 +FDO
255.vortex:   -Ofast -OPT:goto=off +FDO
256.bzip2:    basepeak=true
300.twolf:    -O2 -CG:gcm=off:p2align_freq=100000
              -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
              -WOPT:mem_opnds=on -m32 +FDO
```

BIOS Configuration Notes

Node Interleaving Disabled

Other Configuration Notes

Single-processor kernel was used