



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL35p (AMD Opteron (TM) 275)

SPECint2000 = 1498
SPECint_base2000 = 1361

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	107	1312	105	1336	
175.vpr	1400	131	1071	126	1115	
176.gcc	1100	72.5	1516	72.5	1516	
181.mcf	1800	276	653	172	1049	
186.crafty	1000	53.4	1874	53.2	1881	
197.parser	1800	173	1040	145	1244	
252.eon	1300	62.2	2091	56.2	2314	
253.perlbmk	1800	120	1496	112	1606	
254.gap	1100	75.8	1451	75.8	1451	
255.vortex	1900	87.1	2181	85.7	2218	
256.bzip2	1500	121	1235	121	1235	
300.twolf	3000	246	1222	193	1556	

Hardware

CPU: AMD Opteron (TM) 275
 CPU MHz: 2200
 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: 1x60GB ATA100 5400RPM
 Other Hardware:

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 1
 SuSE kernel 2.6.5-7.139-default
 Compiler: PathScale EKO Compiler Suite, Release 2.1
 AMD Core Math Library 2.5.1
 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.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
Peak tuning:
 164.gzip: -Ofast
 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
 186.crafty: -Ofast
 197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
```



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Notes/Tuning Information (Continued)

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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.perlbmk:  -O3 -ipa -IPA:plimit=10000 +FDO
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
256.bzip2:    basepeak=true
300.twolf:    -O2 -OPT:unroll_times=8:unroll_size=256:alias=disjoint:Ofast
              -CG:gcm=off:p2align_freq=100000 -WOPT:mem_opnds=on -m32

```

BIOS Configuration Notes
Node Interleaving Disabled

Other Configuration Notes
Single-processor kernel was used