



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL25p (AMD Opteron (TM) 275)

SPECint2000 = 1508
SPECint_base2000 = 1374

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	107	1313	105	1337	
175.vpr	1400	129	1084	125	1123	
176.gcc	1100	71.7	1533	71.7	1533	
181.mcf	1800	264	682	167	1080	
186.crafty	1000	53.4	1872	53.2	1880	
197.parser	1800	171	1054	144	1249	
252.eon	1300	62.2	2091	56.2	2315	
253.perlbmk	1800	121	1492	112	1606	
254.gap	1100	75.0	1468	75.0	1468	
255.vortex	1900	87.0	2185	85.7	2218	
256.bzip2	1500	120	1247	120	1247	
300.twolf	3000	243	1235	191	1573	

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: 4x2048MB PC3200 CL3.0
 Disk Subsystem: 1x36.2GB 15K Ultra320 SCSI
 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
 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 +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)

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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.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 +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

Other Configuration Notes

Taskset utility used to bind process to CPU(s)
Single-processor kernel was used