



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL145 (AMD Opteron (TM) 250)

SPECint2000 = 1561
SPECint_base2000 = 1415

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	95.6	1464	95.3	1469	
175.vpr	1400	122	1146	121	1161	
176.gcc	1100	66.7	1649	66.7	1649	
181.mcf	1800	273	659	171	1054	
186.crafty	1000	48.2	2076	47.9	2087	
197.parser	1800	156	1153	141	1273	
252.eon	1300	63.6	2044	52.9	2458	
253.perlbmk	1800	120	1501	113	1597	
254.gap	1100	75.3	1462	75.3	1462	
255.vortex	1900	95.5	1990	89.0	2134	
256.bzip2	1500	115	1303	115	1303	
300.twolf	3000	237	1267	180	1664	

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)

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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.perlbnk:     -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)