



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL585 (AMD Opteron (TM) 850)

SPECint_rate2000 = 35.8
SPECint_rate_base2000 = 32.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	97.5	33.3	2	96.5	33.6
175.vpr	2	124	26.3	2	121	26.8
176.gcc	2	68.5	37.2	2	68.5	37.2
181.mcf	2	281	14.8	2	176	23.7
186.crafty	2	48.2	48.2	2	47.8	48.5
197.parser	2	157	26.6	2	142	29.4
252.eon	2	63.8	47.3	2	52.7	57.3
253.perlbnk	2	120	34.7	2	113	37.1
254.gap	2	75.7	33.7	2	75.7	33.7
255.vortex	2	97.8	45.1	2	91.2	48.3
256.bzip2	2	116	30.0	2	116	30.0
300.twolf	2	238	29.2	2	188	37.1

Hardware

CPU: AMD Opteron (TM) 850
 CPU MHz: 2400
 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 PC2700 CL2.5
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI
 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.crafy: -DLINUX_i386 -DSPEC_CPU2000
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
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.perlbmk:     -O3 -ipa -TENV:X=3 +FDO -IPA:min_hotness=5:plimit=20000
254.gap:         basepeak=yes
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 +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)