



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL585 (AMD Opteron (TM) 875)

SPECint_rate2000 = 65.3

SPECint_rate_base2000 = 58.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	107	60.9	4	106	61.1
175.vpr	4	140	46.5	4	137	47.6
176.gcc	4	80.7	63.2	4	80.7	63.2
181.mcf	4	382	21.8	4	240	34.8
186.crafty	4	53.3	87.1	4	53.3	87.1
197.parser	4	184	45.4	4	147	57.0
252.eon	4	63.5	95.0	4	57.8	104
253.perlbnk	4	123	67.8	4	112	74.8
254.gap	4	84.0	60.8	4	84.9	60.2
255.vortex	4	89.7	98.3	4	81.5	108
256.bzip2	4	130	53.4	4	130	53.4
300.twolf	4	264	52.8	4	198	70.3

Hardware

CPU: AMD Opteron (TM) 875
 CPU MHz: 2200
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/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 9 (x86_64) SP 1
 SuSE kernel 2.6.5-7.139-smp
 Compiler: PathScale EKO Compiler Suite, Release 2.0
 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.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 srcalt=closed_files

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=true

181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO

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http://www.spec.org



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Notes/Tuning Information (Continued)

```
186.crafty: -Ofast +FDO
197.parser: -O3 -ipa -m32 -IPA:cctype=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=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
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=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
```