



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL45p (AMD Opteron (TM) 885)

SPECint2000 = 1802
SPECint_base2000 = 1604

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2006 Hardware Avail: Mar-2006 Software Avail: Feb-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	89.0	1572	88.5	1581	[Bar chart showing ratio bars for 164.gzip]			
175.vpr	1400	112	1246	108	1296	[Bar chart showing ratio bars for 175.vpr]			
176.gcc	1100	61.1	1801	61.1	1800	[Bar chart showing ratio bars for 176.gcc]			
181.mcf	1800	253	711	157	1148	[Bar chart showing ratio bars for 181.mcf]			
186.crafty	1000	43.8	2283	42.3	2364	[Bar chart showing ratio bars for 186.crafty]			
197.parser	1800	149	1212	119	1511	[Bar chart showing ratio bars for 197.parser]			
252.eon	1300	49.0	2653	42.0	3093	[Bar chart showing ratio bars for 252.eon]			
253.perlbmk	1800	103	1750	91.3	1971	[Bar chart showing ratio bars for 253.perlbmk]			
254.gap	1100	64.1	1717	63.4	1734	[Bar chart showing ratio bars for 254.gap]			
255.vortex	1900	74.1	2563	68.9	2757	[Bar chart showing ratio bars for 255.vortex]			
256.bzip2	1500	103	1450	103	1450	[Bar chart showing ratio bars for 256.bzip2]			
300.twolf	3000	213	1412	164	1832	[Bar chart showing ratio bars for 300.twolf]			

Hardware

CPU: AMD Opteron (TM) 885
CPU MHz: 2600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2,4
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: 1x36.4GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP3
SuSE kernel 2.6.5-7.244-default
Compiler: PathScale EKOPATH(TM) Compiler Suite, Release 2.3
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: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
 186.crafty: -DLINUX_i386
 252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
 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_CALLOC_PROTO -DSPEC_CPU2000_LP64
 255.vortex: -DSPEC_CPU2000_LP64
Peak tuning:
164.gzip: -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
175.vpr: -O3 -ipa -m32 +FDO
176.gcc: -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
          -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
```



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Notes/Tuning Information (Continued)

```
-LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
253.perlbnk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
              -fno-math-errno -IPA:plimit=10000 +FDO
254.gap:      -Ofast -IPA:min_hotness=5 -OPT:alias=disjoint -CG:movnti=1 +FDO
255.vortex:   -Ofast -OPT:goto=off +FDO
256.bzip2:    basepeak=true
300.twolf:    -O2 -CG:gcm=off:p2align_freq=100000
              -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
              -WOPT:mem_opnds=on -m32 +FDO
```

BIOS Configuration Notes

Node Interleaving Disabled

Other Configuration Notes

Taskset utility used to bind process to CPU(s)