CINT2000 Result

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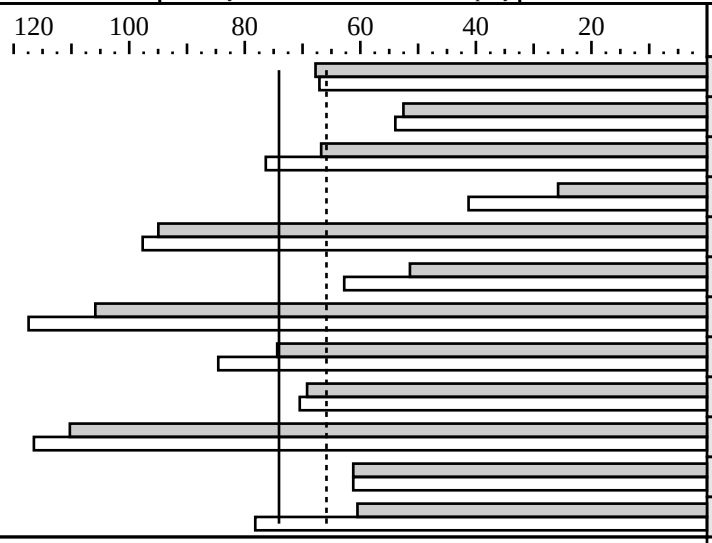
Hewlett-Packard Company
ProLiant BL45p (AMD Opteron (TM) 880)

SPECint_rate2000 = 74.1

SPECint_rate_base2000 = 65.9

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	95.9	67.8	4	96.8	67.1
175.vpr	4	124	52.5	4	120	53.9
176.gcc	4	76.4	66.8	4	66.8	76.4
181.mcf	4	324	25.8	4	202	41.3
186.crafty	4	48.9	95.0	4	47.5	97.7
197.parser	4	162	51.4	4	133	62.8
252.eon	4	57.0	106	4	51.4	117
253.perlbmk	4	112	74.4	4	98.7	84.6
254.gap	4	73.7	69.2	4	72.4	70.5
255.vortex	4	79.9	110	4	75.7	116
256.bzip2	4	114	61.2	4	114	61.2
300.twolf	4	230	60.5	4	178	78.2

Hardware

CPU:	AMD Opteron (TM) 880
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 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:	8x2048MB PC3200 CL3.0
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 EKOPath(TM) 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:   -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
  176.gcc:     srcalt=64bitgcc
  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_CALLOC_PROTO -DSPEC_CPU2000_LP64
  255.vortex:  -DSPEC_CPU2000_LP64 srcalt=closed_files
Peak tuning:
  164.gzip:    -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +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:     -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
```

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Notes/Tuning Information (Continued)

```
    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
                 -LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
    253.perlbmk: -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)
```