



CINT2000 Result

Copyright ©1999-2007, Standard Performance Evaluation Corporation

Hewlett-Packard Company
ProLiant BL685c (AMD Opteron (TM) 8220)

SPECint_rate2000 = 86.5
SPECint_rate_base2000 = 76.3

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2006 Hardware Avail: Feb-2007 Software Avail: Oct-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	82.5	78.7	4	82.5	78.7
175.vpr	4	109	59.4	4	104	62.5
176.gcc	4	57.9	88.2	4	58.4	87.3
181.mcf	4	292	28.6	4	175	47.7
186.crafty	4	42.1	110	4	41.7	111
197.parser	4	142	58.8	4	111	75.1
252.eon	4	43.5	139	4	39.2	154
253.perlbnk	4	102	81.8	4	85.3	97.9
254.gap	4	63.7	80.1	4	62.0	82.3
255.vortex	4	72.9	121	4	65.9	134
256.bzip2	4	101	69.1	4	101	69.1
300.twolf	4	209	66.7	4	155	89.5

Hardware

CPU: AMD Opteron (TM) 8220
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 2,4 chips
 Parallel: No
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16 GB (8x2 GB PC2-5300P CL5.0)
 Disk Subsystem: 1x36 GB 10K SAS
 Other Hardware:

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 3
 SuSE kernel 2.6.5-7.244-smp
 Compiler: PathScale EKOPATH(TM) Compiler Suite, Release 2.5
 AMD Core Math Library 3.5.0
 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: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
 186.crafty: -DLINUX_i386
 252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
 253.perlbnk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
              -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
```



CINT2000 Result

Copyright ©1999-2007, Standard Performance Evaluation Corporation

Hewlett-Packard Company
ProLiant BL685c (AMD Opteron (TM) 8220)

SPECint_rate2000 = 86.5
SPECint_rate_base2000 = 76.3

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2006 Hardware Avail: Feb-2007 Software Avail: Oct-2006

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)