



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
ProLiant DL145 G2 (AMD Opteron (TM) 252)

SPECint\_rate2000 = 19.8  
SPECint\_rate\_base2000 = 18.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	90.1	18.0	1	88.8	18.3
175.vpr	1	121	13.4	1	117	13.9
176.gcc	1	62.2	20.5	1	62.2	20.5
181.mcf	1	263	7.95	1	165	12.7
186.crafty	1	45.0	25.8	1	44.9	25.8
197.parser	1	151	13.8	1	125	16.7
252.eon	1	52.8	28.6	1	47.3	31.9
253.perlbnk	1	105	19.9	1	97.9	21.3
254.gap	1	65.7	19.4	1	65.8	19.4
255.vortex	1	81.4	27.1	1	80.0	27.6
256.bzip2	1	107	16.3	1	107	16.3
300.twolf	1	211	16.5	1	159	21.8

### Hardware

CPU: AMD Opteron (TM) 252  
 CPU MHz: 2600  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 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 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 EKO 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: -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
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
186.crafty: -Ofast +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
```



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
ProLiant DL145 G2 (AMD Opteron (TM) 252)

SPECint\_rate2000 = 19.8  
SPECint\_rate\_base2000 = 18.0

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

## Notes/Tuning Information (Continued)

```

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 +FDO
255.vortex:   -Ofast -IPA:space=70:plimit=3000
              -OPT:goto=off:unroll_analysis=off:unroll_size=0:unroll_times_max=8
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

Other Configuration Notes  
Taskset utility used to bind process to CPU(s)