CINT2000 Result

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Hewlett-Packard Company

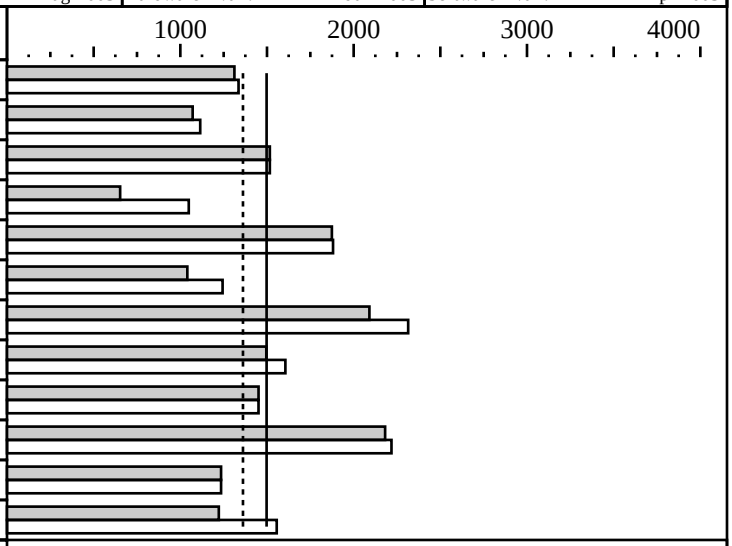
ProLiant BL35p (AMD Opteron (TM) 275)

SPECint2000 = 1498

SPECint_base2000 = 1361

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	107	1312	105	1336
175.vpr	1400	131	1071	126	1115
176.gcc	1100	72.5	1516	72.5	1516
181.mcf	1800	276	653	172	1049
186.crafty	1000	53.4	1874	53.2	1881
197.parser	1800	173	1040	145	1244
252.eon	1300	62.2	2091	56.2	2314
253.perlbmk	1800	120	1496	112	1606
254.gap	1100	75.8	1451	75.8	1451
255.vortex	1900	87.1	2181	85.7	2218
256.bzip2	1500	121	1235	121	1235
300.twolf	3000	246	1222	193	1556



Hardware

CPU:	AMD Opteron (TM) 275
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2
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:	2x2048MB PC3200 CL3.0
Disk Subsystem:	1x60GB ATA100 5400RPM
Other Hardware:	

Software

Operating System:	SuSE Linux Enterprise Server 9 (x86_64) SP 1 SuSE kernel 2.6.5-7.139-default
Compiler:	PathScale EKO Compiler Suite, Release 2.1 AMD Core Math Library 2.5.1
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.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_SIGNAL_PROTO  -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
               -DSPEC_CPU2000_LP64
  255.vortex:  -DSPEC_CPU2000_LP64 srcalt=closed_files
Peak tuning:
  164.gzip:    -Ofast
  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
  186.crafty:  -Ofast
  197.parser:  -O3 -ipa -m32 -IPA:ctype=on +FDO
```

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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.perlbmk: -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
    256.bzip2:   basepeak=true
    300.twolf:   -O2 -OPT:unroll_times=8:unroll_size=256:alias=disjoint:Ofast
                 -CG:gcm=off:p2align_freq=100000 -WOPT:mem_opnds=on -m32
BIOS Configuration Notes
  Node Interleaving Disabled
Other Configuration Notes
   Single-processor kernel was used
```