CINT2000 Result

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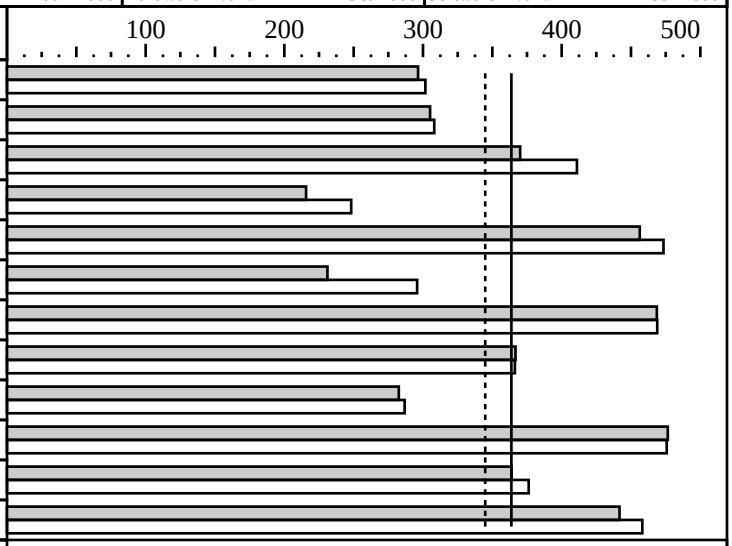
Compaq Computer Corporation
AlphaServer DS10 6/600

SPECint2000 = 364

SPECint_base2000 = 345

SPEC license #: 2 | Tested by: Compaq NH | Test date: Jun-2000 | Hardware Avail: Oct-2000 | Software Avail: Jul-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	472	296	464	302
175.vpr	1400	459	305	454	308
176.gcc	1100	297	370	268	411
181.mcf	1800	835	216	725	248
186.crafty	1000	219	456	211	473
197.parser	1800	779	231	609	296
252.eon	1300	277	469	277	469
253.perlbmk	1800	491	367	491	366
254.gap	1100	389	283	384	287
255.vortex	1900	399	477	399	476
256.bzip2	1500	412	364	399	376
300.twolf	3000	679	442	655	458



Hardware

CPU:	Alpha 21264A
CPU MHz:	616
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	2MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	1GB
Disk Subsystem:	1x9GB RZ2DD-LS
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX V4.0G
Compiler:	Compaq C X6.2-259-449AT DIGITAL C++ V6.1-029-408B6
File System:	AdvFS
System State:	Multi-user

Notes/Tuning Information

```
Baseline C  : cc  -arch ev6 -fast GEMFB ONESTEP
        C++: cxx -arch ev6 -O2 ONESTEP

GEMFB: fdo_pre0     = mkdir /tmp/pb; rm -f /tmp/pb/${baseexe}*
       PASS1_CFLAGS = -prof_gen_noopt    -prof_dir /tmp/pb
       PASS2_CFLAGS = -prof_use_feedback -prof_dir /tmp/pb
       (base uses directory /tmp/pb; peak uses /tmp/pp)

Peak: cc [except eon: cxx] -v -arch ev6 ONESTEP plus:
     164.gzip: -g3 -fast -O4 +GEMFB
      175.vpr: -g3 -fast -O4 +GEMFB
      176.gcc: -g3 -fast -O4 -xtaso_short +GEMFB
      181.mcf: -g3 -fast -xtaso_short +GEMFB
   186.crafty: -g3 -fast -O4 -inline speed
   197.parser: -g3 -fast -O4 -xtaso_short +GEMFB
      252.eon: -O2
  253.perlbmk: -g3 -fast +GEMFB
      254.gap: -g3 -fast -O4 +GEMFB
   255.vortex: -g3 -fast +GEMFB
    256.bzip2: -g3 -fast -O4 +GEMFB
```

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Notes/Tuning Information (Continued)

```
    300.twolf: -g3 -fast -O4 +GEMFB

Portability: gcc: -Dalloca=__builtin_alloca; crafty: -DALPHA
perlbmk: -DSPEC_CPU2000_DUNIX; vortex: -DSPEC_CPU2000_LP64
gap: -DSYS_HAS_CALLOC_PROTO -DSYS_IS_BSD -DSYS_HAS_IOCTL_PROTO -DSPEC_CPU2000_LP64
```