CINT2000 Result

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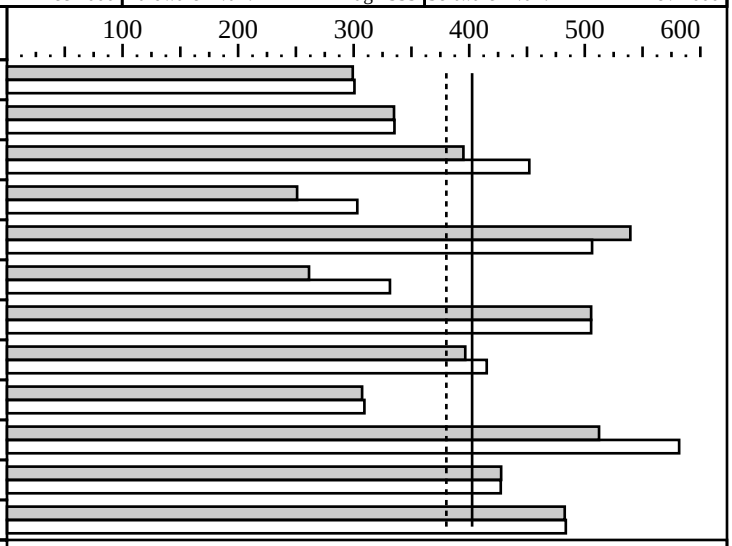
Compaq Computer Corporation
AlphaStation XP1000 Model 6/667

SPECint2000 = 403

SPECint_base2000 = 380

SPEC license #: 2 | Tested by: Compaq NH | Test date: Dec-2000 | Hardware Avail: Aug-1999 | Software Avail: Nov-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	468	299	466	301
175.vpr	1400	418	335	418	335
176.gcc	1100	279	395	243	452
181.mcf	1800	717	251	594	303
186.crafty	1000	185	539	198	506
197.parser	1800	689	261	543	331
252.eon	1300	257	505	257	505
253.perlbmk	1800	454	397	434	415
254.gap	1100	358	307	356	309
255.vortex	1900	371	512	327	582
256.bzip2	1500	351	428	351	427
300.twolf	3000	622	483	620	484



Hardware

CPU:	Alpha 21264A
CPU MHz:	667
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:	4MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	1GB
Disk Subsystem:	1x4GB RZ2DD-KS
Other Hardware:	None

Software

Operating System:	Tru64 UNIX V5.1 Libc from UNIX V5.1 Patch Kit 1
Compiler:	Compaq C V6.3-129-44A8I Compaq C++ V6.2-033-4298H
File System:	ufs
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)

SPIKEFB: fdo_post2  = spike -feedback ${baseexe} -o tmp ${baseexe};
                      mv tmp ${baseexe}
Peak: cc [except eon: cxx]  -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 +SPIKEFB
      254.gap: -g3 -fast -O4 +GEMFB
```

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Notes/Tuning Information (Continued)

```
    255.vortex: -g3 -fast +GEMFB +SPIKEFB
     256.bzip2: -g3 -fast -O4 +GEMFB
     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

Information on UNIX V5.1 Patches can be found at
http://ftp1.service.digital.com/public/unix/v5.1/
```