CINT2000 Result

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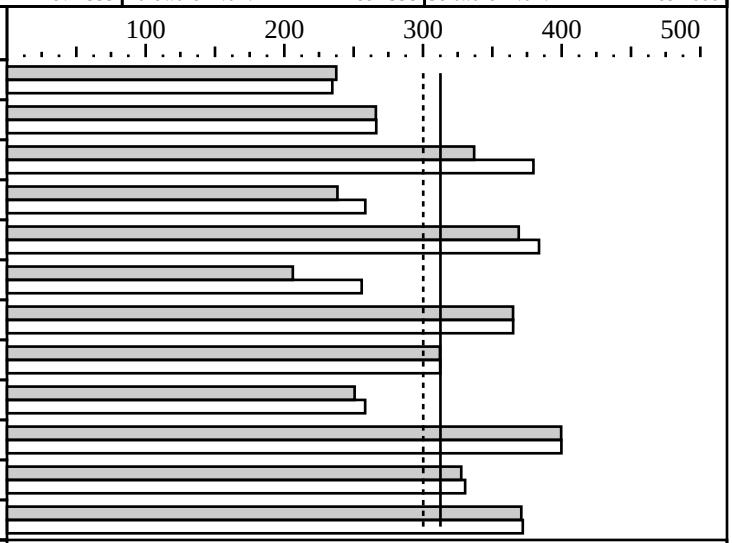
Compaq Computer Corporation
AlphaServer DS20 Model 6/500

SPECint2000 = 313

SPECint_base2000 = 300

SPEC license #: 2 | Tested by: Compaq NH | Test date: Nov-1999 | Hardware Avail: Dec-1998 | Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	590	237	597	235
175.vpr	1400	526	266	526	266
176.gcc	1100	327	337	290	380
181.mcf	1800	755	238	697	258
186.crafty	1000	271	369	261	384
197.parser	1800	873	206	704	256
252.eon	1300	356	365	356	365
253.perlbmk	1800	577	312	576	312
254.gap	1100	439	251	426	258
255.vortex	1900	475	400	475	400
256.bzip2	1500	458	328	454	330
300.twolf	3000	809	371	807	372



Hardware

CPU:	Alpha 21264
CPU MHz:	500
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1 to 2
Parallel:	No
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	2GB (16x128MB)
Disk Subsystem:	3x4GB
Other Hardware:	Ethernet

Software

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

Notes/Tuning Information

```
Baseline C  : cc  -v -arch ev6 -fast GEMFB ONESTEP
         C++: cxx -v -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
The C compiler used here will be available to customers as V6.3
at http://www.unix.digital.com/dtk/ .  It will be available as an
ADK (Advanced Developers' Kit) in February, 2000 and as the final
version in July, 2000.
```