CINT2000 Result

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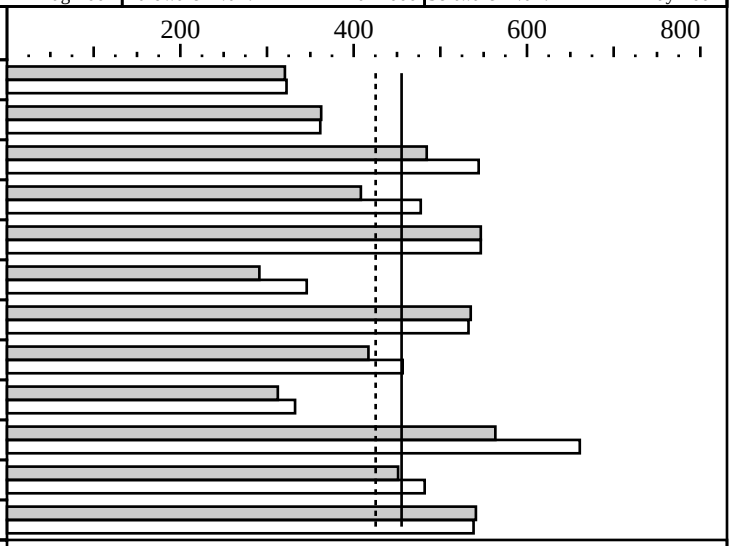
Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECint2000 = 455

SPECint_base2000 = 425

SPEC license #: 2 | Tested by: Compaq NH | Test date: Aug-2001 | Hardware Avail: Mar-2000 | Software Avail: May-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	437	321	434	323
175.vpr	1400	386	363	387	361
176.gcc	1100	227	484	202	544
181.mcf	1800	441	408	377	477
186.crafty	1000	183	547	183	547
197.parser	1800	618	291	520	346
252.eon	1300	243	535	244	533
253.perlbmk	1800	432	417	394	457
254.gap	1100	352	312	331	332
255.vortex	1900	337	563	287	661
256.bzip2	1500	332	451	311	482
300.twolf	3000	554	541	557	538



Hardware

CPU:	Alpha 21264A
CPU MHz:	667
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:	8MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	512MB (16x32MB)
Disk Subsystem:	1x18GB
Other Hardware:	None

Software

Operating System:	Tru64 UNIX V5.1 UNIX V5.1 Patch Kit 2
Compiler:	Compaq C T6.4-208-46B2F Compaq C++ V6.3-005-46B22
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)

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  +SPIKEFB
      181.mcf: -g3 -fast -xtaso_short +GEMFB
   186.crafty: same as baseline
   197.parser: -g3 -fast -O4 -xtaso_short +GEMFB
      252.eon: -O2
  253.perlbmk: -g3 -fast -non_shared +GEMFB +SPIKEFB
      254.gap: -g3 -fast -O4 -non_shared +GEMFB +SPIKEFB
```

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Notes/Tuning Information (Continued)

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

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/
```