CINT2000 Result

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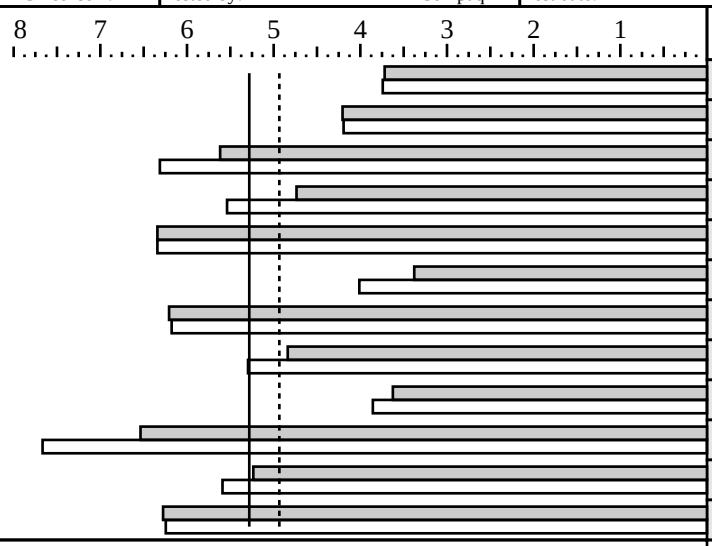
Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECint_rate2000 = 5.28

SPECint_rate_base2000 = 4.93

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	437	3.72	1	434	3.74
175.vpr	1	386	4.21	1	387	4.19
176.gcc	1	227	5.62	1	202	6.31
181.mcf	1	441	4.74	1	377	5.54
186.crafty	1	183	6.34	1	183	6.34
197.parser	1	618	3.38	1	520	4.01
252.eon	1	243	6.21	1	244	6.18
253.perlbmk	1	432	4.84	1	394	5.30
254.gap	1	352	3.62	1	331	3.86
255.vortex	1	337	6.54	1	287	7.67
256.bzip2	1	332	5.23	1	311	5.59
300.twolf	1	554	6.28	1	557	6.24

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/
```