CINT2000 Result

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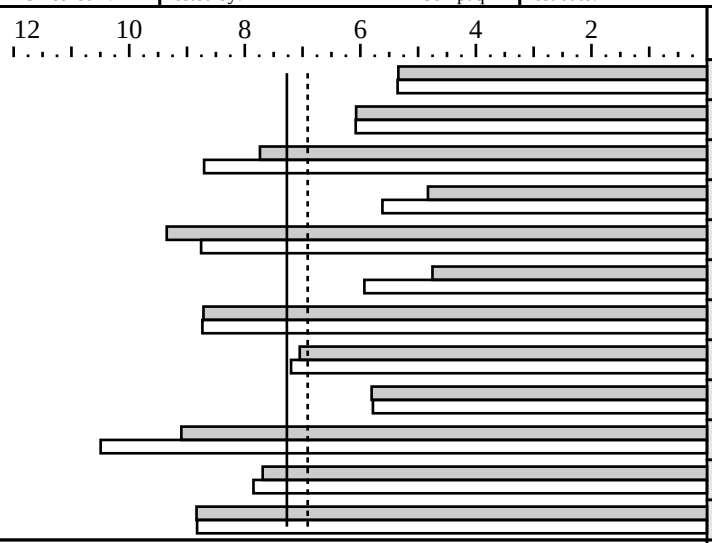
Compaq Computer Corporation
AlphaServer DS20 Model 6/500

SPECint_rate2000 = 7.27

SPECint_rate_base2000 = 6.91

SPEC license #: 2 | Tested by: Compaq NH | Test date: Jan-2001 | Hardware Avail: Dec-1998 | Software Avail: Nov-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	608	5.34	2	607	5.35
175.vpr	2	535	6.07	2	534	6.08
176.gcc	2	330	7.74	2	293	8.70
181.mcf	2	865	4.83	2	743	5.62
186.crafty	2	248	9.35	2	265	8.76
197.parser	2	879	4.75	2	704	5.93
252.eon	2	346	8.71	2	345	8.73
253.perlbmk	2	592	7.05	2	580	7.20
254.gap	2	440	5.80	2	441	5.78
255.vortex	2	485	9.10	2	420	10.5
256.bzip2	2	453	7.69	2	443	7.85
300.twolf	2	788	8.84	2	789	8.83

Hardware

CPU:	Alpha 21264
CPU MHz:	500
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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
Disk Subsystem:	2x9GB(rz2dd-ls)
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:	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
      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/
```