CINT2000 Result

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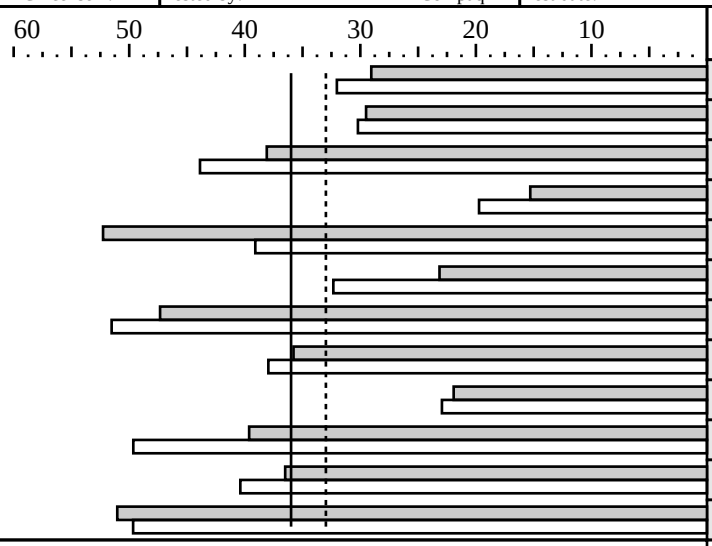
Compaq Computer Corporation
AlphaServer GS80 Model 6/731

SPECint_rate2000 = 36.0

SPECint_rate_base2000 = 33.0

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	447	29.1	8	406	32.0
175.vpr	8	440	29.5	8	430	30.2
176.gcc	8	268	38.1	8	233	43.9
181.mcf	8	1092	15.3	8	847	19.7
186.crafty	8	178	52.3	8	237	39.1
197.parser	8	722	23.1	8	517	32.3
252.eon	8	255	47.3	8	234	51.5
253.perlbmk	8	467	35.8	8	440	38.0
254.gap	8	466	21.9	8	445	22.9
255.vortex	8	445	39.6	8	355	49.6
256.bzip2	8	381	36.5	8	345	40.4
300.twolf	8	546	51.0	8	561	49.7

Hardware

CPU:	Alpha 21264A
CPU MHz:	731
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	1 to 8
Parallel:	No
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB off chip per cpu
L3 Cache:	None
Other Cache:	None
Memory:	128GB
Disk Subsystem:	9.1GB (ds-rz1da-vw)
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX V5.1
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   -arch ev6 -fast GEMFB -non_shared
         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)

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 -non_shared
      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
```