CINT2000 Result

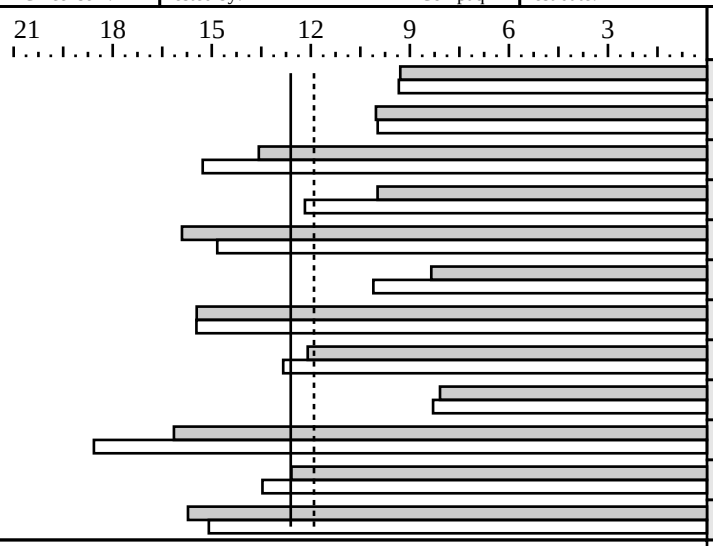
Copyright ©1999-2004, Standard Performance Evaluation Corporation

Compaq Computer Corporation
AlphaServer ES40 Model 6/833

SPECint_rate2000 = 12.6

SPECint_rate_base2000 = 11.9

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	350	9.29	2	348	9.33
175.vpr	2	324	10.0	2	326	9.97
176.gcc	2	188	13.6	2	167	15.3
181.mcf	2	419	9.98	2	343	12.2
186.crafty	2	146	15.9	2	156	14.8
197.parser	2	500	8.35	2	413	10.1
252.eon	2	195	15.5	2	195	15.5
253.perlbmk	2	345	12.1	2	325	12.8
254.gap	2	316	8.09	2	308	8.30
255.vortex	2	273	16.1	2	237	18.6
256.bzip2	2	276	12.6	2	258	13.5
300.twolf	2	443	15.7	2	461	15.1

Hardware

CPU:	Alpha 21264B
CPU MHz:	833
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1 to 4
Parallel:	No
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	8MB off chip
L3 Cache:	None
Other Cache:	None
Memory:	16GB
Disk Subsystem:	1x9GB BD0096349A
Other Hardware:	None

Software

Operating System:	Tru64 UNIX V5.1 Libc from UNIX V5.1 Patch Kit 1
Compiler:	Compaq C T6.4-208-46B22 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
      181.mcf: -g3 -fast -xtaso_short +GEMFB
   186.crafty: -g3 -fast -O4 -inline speed -non_shared
   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
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

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

  The C compiler is the Advanced Development Kit (ADK) version
  of the Developers' Tool Kit (DTK) C compiler.  The ADK is
  downloadable as of March, 2001 at http://tru64unix.compaq.com/dtk.
  The final version of DTK C V6.4 is scheduled for completion in
  May, 2001, and will be downloadable at the same location.
```