



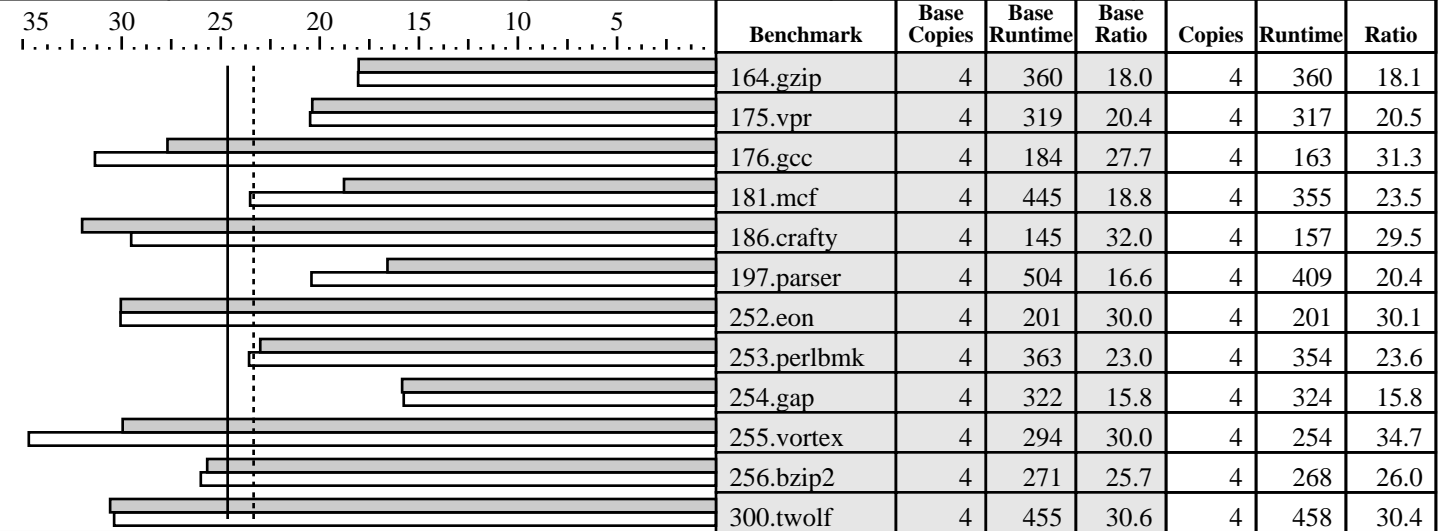
CINT2000 Result

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Compaq Computer Corporation AlphaServer ES40 Model 6/833

SPECint_rate2000 = 24.7
SPECint_rate_base2000 = 23.3

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



Hardware

CPU: Alpha 21264B
 CPU MHz: 833
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 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: 2x9GB BD0096349A
 Other Hardware: Ethernet

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.perlbnk: -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
perlbnk: -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://ftpl.service.digital.com/public/unix/v5.1/>