# CINT2000 Result

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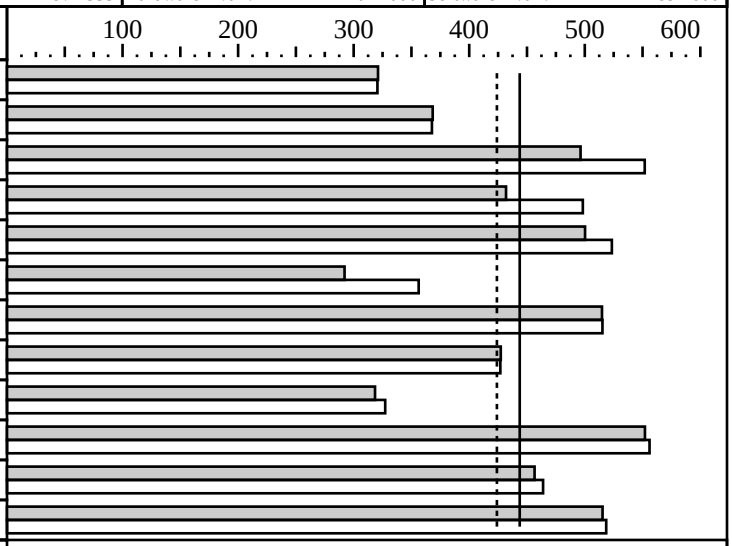
## Compaq Computer Corporation
## AlphaServer DS20E Model 6/667

SPECint2000 = 444

SPECint_base2000 = 424

SPEC license #: 2 | Tested by: Compaq NH | Test date: Nov-1999 | Hardware Avail: Mar-2000 | Software Avail: Feb-2000

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 164.gzip | 1400 | 436 | 321 | 437 | 321 |
| 175.vpr | 1400 | 380 | 368 | 381 | 368 |
| 176.gcc | 1100 | 222 | 496 | 199 | 552 |
| 181.mcf | 1800 | 417 | 432 | 361 | 498 |
| 186.crafty | 1000 | 200 | 500 | 191 | 523 |
| 197.parser | 1800 | 616 | 292 | 505 | 356 |
| 252.eon | 1300 | 252 | 515 | 252 | 515 |
| 253.perlbmk | 1800 | 421 | 427 | 422 | 427 |
| 254.gap | 1100 | 345 | 318 | 336 | 327 |
| 255.vortex | 1900 | 344 | 552 | 342 | 556 |
| 256.bzip2 | 1500 | 329 | 457 | 323 | 464 |
| 300.twolf | 3000 | 582 | 515 | 579 | 519 |




### 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: | 1x4GB |
| Other Hardware: | Ethernet |

### Software

| | |
|---|---|
| Operating System: | Tru64 UNIX V4.0F |
| Compiler: | Compaq C X6.2-259-449AT<br>DIGITAL C++ V6.1-029-408B6 |
| File System: | ufs |
| System State: | Multi-user |

## Notes/Tuning Information

```
Baseline C  : cc  -v -arch ev6 -fast GEMFB ONESTEP
         C++: cxx -v -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] -v -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
      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
The C compiler used here will be available to customers as V6.3
at http://www.unix.digital.com/dtk/ .  It will be available as an
ADK (Advanced Developers' Kit) in February, 2000 and as the final
version in July, 2000.
```