



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.zip | 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.perlbnk | 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.zip: -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/>