



# CINT2000 Result

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## Compaq Computer Corporation AlphaServer DS20 Model 6/500

SPECint\_rate2000 = 3.68

SPECint\_rate\_base2000 = 3.51

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     | 1           | 608          | 2.67       | 1      | 606     | 2.68  |
| 175.vpr     | 1           | 525          | 3.09       | 1      | 523     | 3.11  |
| 176.gcc     | 1           | 325          | 3.93       | 1      | 290     | 4.40  |
| 181.mcf     | 1           | 791          | 2.64       | 1      | 689     | 3.03  |
| 186.crafty  | 1           | 246          | 4.72       | 1      | 264     | 4.39  |
| 197.parser  | 1           | 877          | 2.38       | 1      | 705     | 2.96  |
| 252.eon     | 1           | 346          | 4.36       | 1      | 346     | 4.36  |
| 253.perlbnk | 1           | 579          | 3.61       | 1      | 558     | 3.74  |
| 254.gap     | 1           | 436          | 2.93       | 1      | 436     | 2.93  |
| 255.vortex  | 1           | 477          | 4.62       | 1      | 424     | 5.20  |
| 256.bzip2   | 1           | 453          | 3.84       | 1      | 444     | 3.92  |
| 300.twolf   | 1           | 787          | 4.42       | 1      | 784     | 4.44  |

### Hardware

CPU: Alpha 21264  
CPU MHz: 500  
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: 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/>