



# CINT2000 Result

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Compaq Computer Corporation  
AlphaServer DS20E Model 6/667

SPECint\_rate2000 = 5.28

SPECint\_rate\_base2000 = 4.93

SPEC license #: 2 | Tested by: Compaq NH | Test date: Aug-2001 | Hardware Avail: Mar-2000 | Software Avail: May-2001

								Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
8	7	6	5	4	3	2	1	164.zip	1	437	3.72	1	434	3.74
								175.vpr	1	386	4.21	1	387	4.19
								176.gcc	1	227	5.62	1	202	6.31
								181.mcf	1	441	4.74	1	377	5.54
								186.crafty	1	183	6.34	1	183	6.34
								197.parser	1	618	3.38	1	520	4.01
								252.eon	1	243	6.21	1	244	6.18
								253.perlbnk	1	432	4.84	1	394	5.30
								254.gap	1	352	3.62	1	331	3.86
								255.vortex	1	337	6.54	1	287	7.67
								256.bzip2	1	332	5.23	1	311	5.59
								300.twolf	1	554	6.28	1	557	6.24

### 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: 1x18GB  
 Other Hardware: None

### Software

Operating System: Tru64 UNIX V5.1  
 UNIX V5.1 Patch Kit 2  
 Compiler: Compaq C T6.4-208-46B2F  
 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.zip: -g3 -fast -O4 +GEMFB  
 175.vpr: -g3 -fast -O4 +GEMFB  
 176.gcc: -g3 -fast -O4 -xtaso\_short +GEMFB +SPIKEFB  
 181.mcf: -g3 -fast -xtaso\_short +GEMFB  
 186.crafty: same as baseline  
 197.parser: -g3 -fast -O4 -xtaso\_short +GEMFB  
 252.eon: -O2  
 253.perlbnk: -g3 -fast -non\_shared +GEMFB +SPIKEFB  
 254.gap: -g3 -fast -O4 -non\_shared +GEMFB +SPIKEFB



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## Notes/Tuning Information (Continued)

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

```
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/>