



# CINT2000 Result

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## Compaq Computer Corporation AlphaServer 4100 5/533

SPECint2000 = --  
SPECint\_base2000 = 176

SPEC license #: 2 | Tested by: Compaq NH | Test date: Nov-1999 | Hardware Avail: Oct-1997 | Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	908	154			
175.vpr	1400	760	184			
176.gcc	1100	662	166			
181.mcf	1800	1170	154			
186.crafty	1000	525	190			
197.parser	1800	1306	138			
252.eon	1300	673	193			
253.perlbmk	1800	956	188			
254.gap	1100	776	142			
255.vortex	1900	842	226			
256.bzip2	1500	794	189			
300.twolf	3000	1404	214			

### Hardware

CPU: Alpha 21164  
 CPU MHz: 533  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1 to 4  
 Parallel: No  
 Primary Cache: 8KB(I)+8KB(D) on chip  
 Secondary Cache: 96KB on chip  
 L3 Cache: 4MB off chip  
 Other Cache: None  
 Memory: 1.5GB  
 Disk Subsystem: 3x4GB  
 Other Hardware: Ethernet

### Software

Operating System: Tru64 UNIX V4.0F  
 Compiler: Compaq C X6.2-259-449AT  
 Compaq C++ V6.2-033-4298H  
 File System: ufs  
 System State: Multi-user

## Notes/Tuning Information

Baseline C : ONESTEP cc -arch ev56 -fast GEMFB  
 C++: ONESTEP cxx -arch ev56 -O2

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

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  
 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.