



# CINT2000 Result

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Compaq Computer Corporation  
AlphaServer DS20E Model 6/667

SPECint\_rate2000 = 10.1  
SPECint\_rate\_base2000 = 9.62

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	433	7.50	2	425	7.64
175.vpr	2	386	8.41	2	384	8.47
176.gcc	2	222	11.5	2	203	12.6
181.mcf	2	448	9.32	2	376	11.1
186.crafty	2	198	11.7	2	195	11.9
197.parser	2	625	6.68	2	507	8.24
252.eon	2	259	11.7	2	259	11.7
253.perlbnk	2	437	9.56	2	442	9.44
254.gap	2	360	7.08	2	356	7.16
255.vortex	2	351	12.6	2	357	12.4
256.bzip2	2	333	10.4	2	326	10.7
300.twolf	2	610	11.4	2	585	11.9

Hardware	Software
CPU: Alpha 21264A	Operating System: Tru64 UNIX V4.0G
CPU MHz: 667	Compiler: Compaq C X6.2-259-449AT
FPU: Integrated	DIGITAL C++ V6.1-029-408B6
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip	File System: ufs
CPU(s) orderable: 1 to 2	System State: Multi-user
Parallel: No	
Primary Cache: 64KB(I)+64KB(D) on chip	
Secondary Cache: 8MB off chip	
L3 Cache: None	
Other Cache: None	
Memory: 2GB	
Disk Subsystem: 3x4GB (rz29B-va)	
Other Hardware: None	

## 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)

Peak: cc [except eon: cxx] -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.perlbnk: -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