



# CINT2000 Result

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## Compaq Computer Corporation AlphaServer ES40 Model 6/667

SPECint\_rate2000 = 5.05  
SPECint\_rate\_base2000 = 4.82

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	434	3.74	1	426	3.81
175.vpr	1	381	4.27	1	379	4.28
176.gcc	1	221	5.77	1	203	6.28
181.mcf	1	454	4.60	1	384	5.44
186.crafty	1	198	5.86	1	195	5.94
197.parser	1	627	3.33	1	513	4.07
252.eon	1	258	5.85	1	258	5.84
253.perlbnk	1	436	4.78	1	436	4.79
254.gap	1	357	3.58	1	353	3.61
255.vortex	1	347	6.36	1	346	6.37
256.bzip2	1	332	5.23	1	327	5.33
300.twolf	1	606	5.74	1	583	5.97

### 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: 16GB  
 Disk Subsystem: 1x18GB BD018122C0  
 Other Hardware: Ethernet

### Software

Operating System: Tru64 UNIX V4.0G  
 Compiler: Compaq C X6.2-259-449AT  
 DIGITAL C++ V6.1-029-408B6  
 File System: ufs  
 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)

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