



CINT2000 Result

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Compaq Computer Corporation AlphaServer DS20 Model 6/500

SPECint2000 = 313
SPECint_base2000 = 300

SPEC license #: 2 Tested by: Compaq NH Test date: Nov-1999 Hardware Avail: Dec-1998 Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	590	237	597	235	
175.vpr	1400	526	266	526	266	
176.gcc	1100	327	337	290	380	
181.mcf	1800	755	238	697	258	
186.crafty	1000	271	369	261	384	
197.parser	1800	873	206	704	256	
252.eon	1300	356	365	356	365	
253.perlbnk	1800	577	312	576	312	
254.gap	1100	439	251	426	258	
255.vortex	1900	475	400	475	400	
256.bzip2	1500	458	328	454	330	
300.twolf	3000	809	371	807	372	

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 (16x128MB)
 Disk Subsystem: 3x4GB
 Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V4.0F
 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 -v -arch ev6 -fast GEMFB ONESTEP
 C++: cxx -v -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] -v -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
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.