



CINT2000 Result

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Compaq Computer Corporation AlphaServer ES40 Model 6/500

SPECint2000 = 311
SPECint_base2000 = 299

SPEC license #: 2 Tested by: Compaq NH Test date: Sep-2000 Hardware Avail: Apr-1999 Software Avail: Jul-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	100 200 300 400 500				
164.gzip	1400	580	241	571	245					
175.vpr	1400	522	268	519	270					
176.gcc	1100	325	339	296	372					
181.mcf	1800	801	225	736	245					
186.crafty	1000	267	375	263	380					
197.parser	1800	882	204	706	255					
252.eon	1300	349	372	349	372					
253.perlbnk	1800	591	305	591	304					
254.gap	1100	442	249	437	252					
255.vortex	1900	471	403	471	403					
256.bzip2	1500	461	325	453	331					
300.twolf	3000	821	365	802	374					

Hardware

CPU: Alpha 21264
 CPU MHz: 500
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 to 4
 Parallel: No
 Primary Cache: 64KB(I)+64KB(D) on chip
 Secondary Cache: 4MB 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