



CINT2000 Result

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Compaq Computer Corporation AlphaServer ES40 Model 6/500

SPECint_rate2000 = 13.7
SPECint_rate_base2000 = 13.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	586	11.1	4	578	11.2
175.vpr	4	544	11.9	4	545	11.9
176.gcc	4	350	14.6	4	315	16.2
181.mcf	4	972	8.59	4	892	9.37
186.crafty	4	272	17.1	4	269	17.2
197.parser	4	904	9.24	4	718	11.6
252.eon	4	368	16.4	4	353	17.1
253.perlbnk	4	622	13.4	4	616	13.6
254.gap	4	482	10.6	4	477	10.7
255.vortex	4	493	17.9	4	496	17.8
256.bzip2	4	491	14.2	4	477	14.6
300.twolf	4	827	16.8	4	808	17.2

Hardware

CPU: Alpha 21264
 CPU MHz: 500
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 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