



CINT2000 Result

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Compaq Computer Corporation AlphaServer GS80 Model 6/731

SPECint_rate2000 = 36.0
SPECint_rate_base2000 = 33.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	8	447	29.1	8	406	32.0
175.vpr	8	440	29.5	8	430	30.2
176.gcc	8	268	38.1	8	233	43.9
181.mcf	8	1092	15.3	8	847	19.7
186.crafty	8	178	52.3	8	237	39.1
197.parser	8	722	23.1	8	517	32.3
252.eon	8	255	47.3	8	234	51.5
253.perlbnk	8	467	35.8	8	440	38.0
254.gap	8	466	21.9	8	445	22.9
255.vortex	8	445	39.6	8	355	49.6
256.bzip2	8	381	36.5	8	345	40.4
300.twolf	8	546	51.0	8	561	49.7

Hardware

CPU: Alpha 21264A
 CPU MHz: 731
 FPU: Integrated
 CPU(s) enabled: 8 cores, 8 chips, 1 core/chip
 CPU(s) orderable: 1 to 8
 Parallel: No
 Primary Cache: 64KB(I)+64KB(D) on chip
 Secondary Cache: 4MB off chip per cpu
 L3 Cache: None
 Other Cache: None
 Memory: 128GB
 Disk Subsystem: 9.1GB (ds-rz1da-vw)
 Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V5.1
 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 -non_shared
 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.zip: -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 -non_shared
 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