



CINT2000 Result

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SGI
SGI 2200 2X 400MHz R12k

SPECint2000 = **NC**
SPECint_base2000 = **NC**

SPEC license #: 4 | Tested by: SGI | Test date: Nov-1999 | Hardware Avail: Mar-2000 | Software Avail: May-1999

SPEC has determined that this result was not in compliance with the SPEC CPU2000 run and reporting rules. Specifically, the result did not meet the 3 month availability requirement in the SPEC CPU2000 run rules due to a change in availability of the system.

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1	2	3	4	5
164.gzip	1400	NC	NC	NC	NC					
175.vpr	1400	NC	NC	NC	NC					
176.gcc	1100	NC	NC	NC	NC					
181.mcf	1800	NC	NC	NC	NC					
186.crafty	1000	NC	NC	NC	NC					
197.parser	1800	NC	NC	NC	NC					
252.eon	1300	NC	NC	NC	NC					
253.perlbmk	1800	NC	NC	NC	NC					
254.gap	1100	NC	NC	NC	NC					
255.vortex	1900	NC	NC	NC	NC					
256.bzip2	1500	NC	NC	NC	NC					
300.twolf	3000	NC	NC	NC	NC					

Hardware

CPU: R12000
CPU MHz: 400
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 2
Parallel: No
Primary Cache: 32KBI + 32KBD on chip
Secondary Cache: 8MB(I+D) off chip
L3 Cache: N/A
Other Cache: N/A
Memory: 640MB
Disk Subsystem: 1 x 8.7GB SCSI
Other Hardware: None

Software

Operating System: IRIX 6.5.5m
Compiler: MIPSpro 7.3 C, C++, Fortran90
File System: xfs
System State: Single-user

Notes/Tuning Information

Baseline optimization flags (C and C++ use same flags):
PASS1 : -Ofast=ip27 -IPA:use_intrinsic -fb_create /tmp/SPEC2000/FBDIR/base/\$(EXEBASE)
PASS2 : -Ofast=ip27 -IPA:use_intrinsic -fb_opt /tmp/SPEC2000/FBDIR/base/\$(EXEBASE)

Portability Flags:
176.gcc: -DUSG -Dalloca=__builtin_alloca -DMIPS -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DSGI
253.perlbmk: -DSPEC_CPU2000_SGI -DI_FCNTL
254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_IOCTL_PROTO
300.twolf: -DHAVE_SIGNED_CHAR

Peak optimization flags:
note: all occurrences of (FEEDBACK) below means compiled with a two-step process:
PASS1 = -fb_create /tmp/SPEC2000/FBDIR_peak/\$(EXEBASE)



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Notes/Tuning Information (Continued)

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PASS2 = -fb_opt /tmp/SPEC2000/FBDIR_peak/${EXEBASE}
164.gzip: -Ofast=ip27 -IPA:space=500:plimit=500 (FEEDBACK)
175.vpr: -Ofast=ip27 -IPA:space=300:plimit=10000:callee_limit=5000:linear=on -LNO:prefetch Ahead=2
. -INLINE:aggressive=on -OPT:Olimit=0:alias=disjoint:alias=restrict (FEEDBACK)
181.mcf: -Ofast=ip27 -IPA:min_hot=14 (FEEDBACK)
176.gcc: -Ofast=ip27 (FEEDBACK)
186.crafty: -Ofast=ip27 -LNO:prefetch=0 -OPT:goto=off (FEEDBACK)
197.parser: -Ofast=ip27 -IPA:min_hot=14 (FEEDBACK)
252.eon: -Ofast=ip27 -LNO:prefetch=0 -LANG:exceptions=off (FEEDBACK)
253.perlbnk: -Ofast=ip27 -IPA:use_intrinsic -Wl,-x (FEEDBACK)
254.gap: -Ofast=ip27 -IPA:use_intrinsic -OPT:unroll_analysis=off:unroll_size=0:unroll_times_max=4
. -OPT:alias=restrict:alias=disjoint -IPA:min_hot=7 (FEEDBACK)
255.vortex: -Ofast=ip27 -IPA:use_intrinsic -OPT:unroll_analysis=off:unroll_size=0:unroll_times_max=4 -LNO:opt=0
. -CG:ld_latency=5 -IPA:min_hot=14 -TENV:X=4 -IPA:space=500:plimit=3600 -OPT:goto=off (FEEDBACK)
256.bzip2: -Ofast=ip27 -IPA:min_hot=5:space=500:plimit=2900 -INLINE:aggressive=on (FEEDBACK)
300.twolf: -Ofast=ip27 -IPA:use_intrinsic (FEEDBACK)
The following O/S parameters were set:
limit stacksize 500000
setenv PAGESIZE_DATA 4096
setenv PAGESIZE_TEXT 4096
setenv PAGESIZE_STACK 4096
systemd -i ; percent_totalmem_4m_pages = 50 ; nlpages_4m = 64

```