SPEC CINT95rate Results

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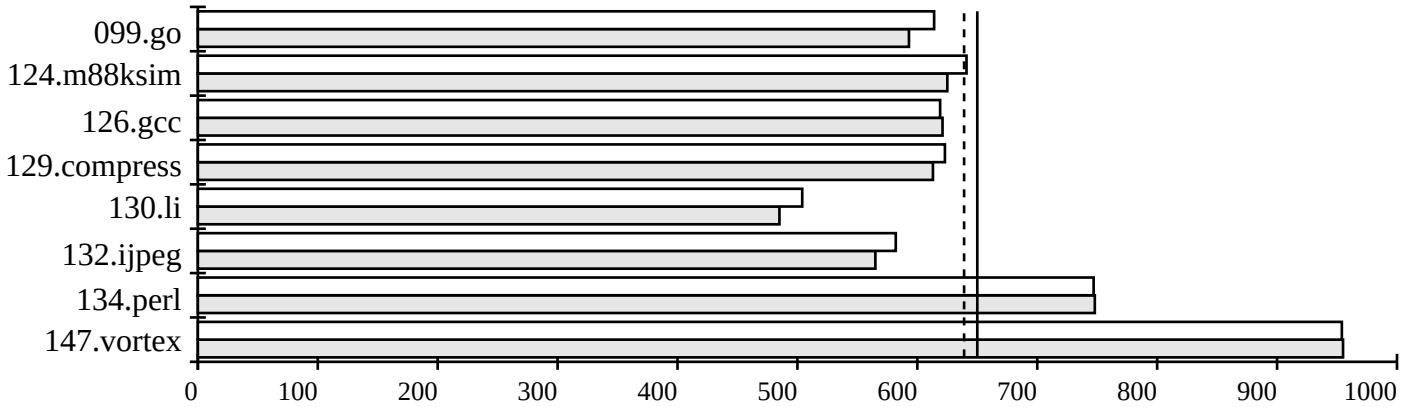
SGI Origin2000: 4X 300MHz R12k

SPECint_rate95 = 650

SPECint_rate_base95 = 639

SPEC license # 04	Tested By: SGI	Test Date: Apr-99	Hardware Avail: Apr-99	Software Avail: Oct-99



Hardware/Software Configuration for:
Origin2000: 4X 300MHz R12k

Hardware

Model Name:	Origin2000: 4X 300MHz R12k
CPU:	300 MHz MIPS R12000 Processor Chip Revision: 2.3
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	8MB (I+D) per CPU
Other Cache:	None
Memory:	1024MB
Disk Subsystem:	2 SCSI 4.5GB (striped)
Other Hardware:	none

Software

Operating System:	IRIX64 6.5.5
Compiler:	MIPSpro C Compiler 7.3
	IRIX Development Foundation 1.2
File System:	XFS
System State:	Multi-User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	4	279	593	4	270	614
124.m88ksim	4	109	625	4	107	641
126.gcc	4	98.6	621	4	99	619
129.compress	4	106	613	4	104	623
130.li	4	141	485	4	136	504
132.ijpeg	4	153	565	4	149	582
134.perl	4	91.5	748	4	92	747
147.vortex	4	102	955	4	102	954
SPECint_rate_base95 (G. Mean)			639			
			SPECint_rate95 (G. Mean)			650

Notes/Tuning Information

```
Portability Flags: all: -DUSG  gcc: -Dalloca=__builtin_alloca
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$(EXENAME)
.   PASS2 = -fb_opt /tmp/FBDIR/$(EXENAME)
Base Flags: -Ofast=ip27 -IPA:use_intrinsic, FEEDBACK
Peak Flags:
go:       -O2 -n32 -mips4 -IPA:plimit=1000:small_pu=60:use_intrinsic \
.         -TARG:platform=ip27 -OPT:Olimit=0 -OPT:goto=off, FEEDBACK
m88ksim:  -O2 -TARG:platform=ip27 -IPA:plimit=4000:space=100:small_pu=90:use_intrinsic \
.         -OPT:Olimit=0:ro=3:goto=off:unroll_times_max=32:unroll_size=300, FEEDBACK
gcc:      -Ofast=ip27 -IPA:use_intrinsic, FEEDBACK
compress: -Ofast=ip27 -IPA:use_intrinsic, FEEDBACK
li:       -Ofast=ip27 -IPA:use_intrinsic:min_hot=12:callee_limit=750:plimit=12000 \
.         -IPA:space=200:clone=on:aggr_cprop=on -OPT:goto=off, FEEDBACK
ijpeg:    -Ofast=ip27 -LNO:fission=0:interchange=off:pf2=0:ou_max=2 -OPT:unroll_analysis=off:unroll_size=480:ieee_arith=3 \
.         -IPA:use_intrinsic:callee_limit=950:plimit=730:space=130:clone=on -OPT:goto=off, FEEDBACK
perl:     -Ofast=ip27 -IPA:use_intrinsic, FEEDBACK
vortex:   -Ofast=ip27 -IPA:use_intrinsic, FEEDBACK
.
Large pages were enabled for base and peak using:
.  systune -i ;  percent_totalmem_1m_pages = 50 ; percent_totalmem_256k_pages = 10 ; nlpages_1m = 300
.  setenv PAGESIZE_DATA 1024
```

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-- Prepared By: --