# SPEC CINT95 Results

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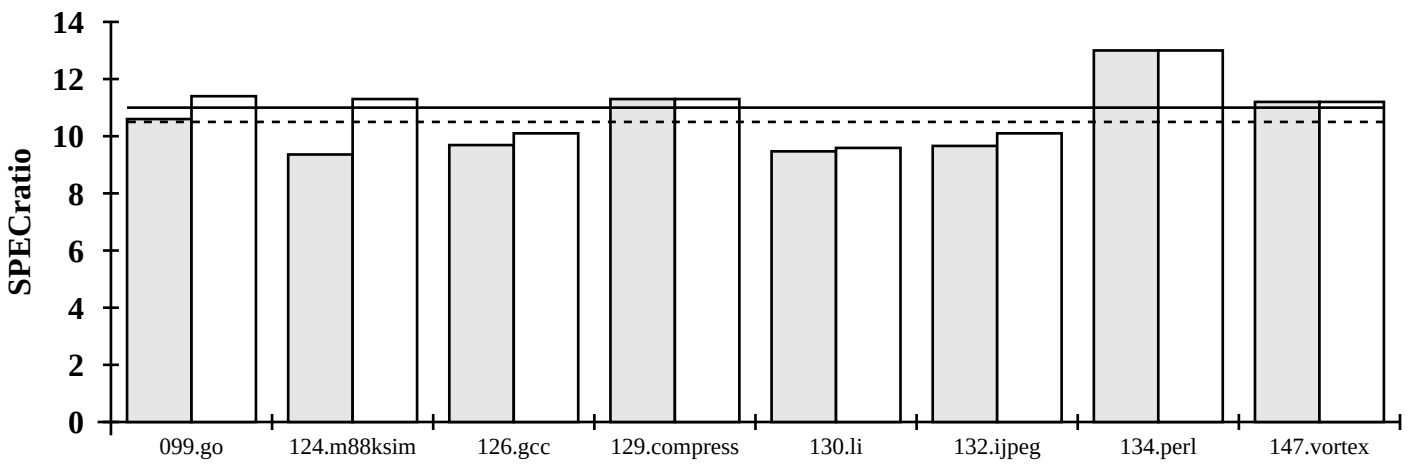
## SGI Octane

SPECint95 = 11.0

SPECint_base95 = 10.5

| SPEC license # 04 | Tested By: SGI | Test Date: Dec-97 | Hardware Avail: Nov-96 | Software Avail: Sep-97 |
|---|---|---|---|---|




Hardware/Software Configuration for: Octane

### Hardware

| | |
|---|---|
| Model Name: | Octane 1X 195MHz R10k |
| CPU: | 195 MHz MIPS R10000 Processor Chip Revision: 2.7 |
| FPU: | MIPS R10010 Floating Point Chip Revision: 0.0 |
| Number of CPU(s): | 1 |
| Primary Cache: | 32KBI + 32KBD on chip |
| Secondary Cache: | 1MB (I+D) |
| Other Cache: | None |
| Memory: | 128MB |
| Disk Subsystem: | 1 SCSI 4.3GB |
| Other Hardware: | none |

### Software

| | |
|---|---|
| Operating System: | IRIX64 6.4 |
| Compiler: | MIPSpro C Compiler 7.2 |
| | IRIX Development Foundation 1.0 w/patch2687 |
| File System: | XFS |
| System State: | Single-User |

| Benchmark # and Name | Reference Time | Base Run Time | Base SPEC Ratio | Run Time | SPEC Ratio |
|---|---|---|---|---|---|
| 099.go | 4600 | 433 | 10.6 | 403 | 11.4 |
| 124.m88ksim | 1900 | 203 | 9.36 | 168 | 11.3 |
| 126.gcc | 1700 | 175 | 9.69 | 169 | 10.1 |
| 129.compress | 1800 | 159 | 11.3 | 159 | 11.3 |
| 130.li | 1900 | 201 | 9.47 | 198 | 9.59 |
| 132.ijpeg | 2400 | 249 | 9.66 | 238 | 10.1 |
| 134.perl | 1900 | 146 | 13.0 | 146 | 13.0 |
| 147.vortex | 2700 | 241 | 11.2 | 240 | 11.2 |
| SPECint_base95 (G. Mean) | | | 10.5 | | |
| | | SPECint95 (G. Mean) | | | 11.0 |

## Notes/Tuning Information

```
Portability Flags: all: -DUSG  gcc: -I./config -Dalloca=__builtin_alloca
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$        where $ is the program name
.   PASS2 = -fb_opt /tmp/FBDIR/$           where $ is the program name
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 -n32 -mips4 -TARG:platform=ip27 -IPA:plimit=4000:space=100:small_pu=90:use_intrinsic \
.         -OPT:Olimit=0:fast_bit_intrinsics=on:ro=3:goto=off, FEEDBACK
gcc:      -Ofast=ip27 -IPA:use_intrinsic:callee_limit=1500:plimit=750:space=120:clone=on -OPT:fast_bit_intrinsics=on \
.         -LNO:fission=1:pwr2=off:prefetch=0 -OPT:ieee_arith=3, 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
```

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