Benchmark

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Prepare

Go

```r
# load shared object
dyn.load("rgo.so")
```

R

```r
source("fibonacchi.R")
```

Single execution

Go

```r
.Call("gofib", 40L)
```

```
## [1] 102334155
```

```r
system.time(.Call("gofib", 40L))
```

```
##    user  system elapsed
##   0.781   0.007   0.846
```

```r
system.time(.Call("gofib_fast", 40L))
```

```
##    user  system elapsed
##       0       0       0
```

R

```r
# too slowly
# fibr(40L)
```

```r
fibr_fast(40L)
```

```
## [1] 102334155
```

```r
system.time(fibr_fast(40L))
```

```
##    user  system elapsed
##       0       0       0
```

Comparison

```
compare <- microbenchmark::microbenchmark(Go = .Call("gofib_fast", 40L),
                                           R = fibr_fast(40L),
                                           times = 1000)
knitr::kable(microbenchmark:::print.microbenchmark(compare))
```

```
## Unit: microseconds
##  expr   min     lq     mean  median      uq     max neval
##    Go 6.287 6.7015 13.05974  9.2065 11.4130 564.706  1000
##     R 7.291 8.5380 17.28417 15.5515 17.8445 456.457  1000
```

expr	min	lq	mean	median	uq	max	neval
Go	6.287	6.7015	13.05974	9.2065	11.4130	564.706	1000
R	7.291	8.5380	17.28417	15.5515	17.8445	456.457	1000

```
microbenchmark:::autoplot.microbenchmark(compare)
```

```
## Loading required namespace: ggplot2
```

```
## Coordinate system already present. Adding new coordinate system, which will replace the existing one
```