

compstat/R/vMSim.R

```
1  ## ---- vmsim-slow ----
2  sample_vonmises_slow <- function(n, kappa) {
3    y <- numeric(n)
4
5    for (i in seq_len(n)) {
6      reject <- TRUE
7
8      while (reject) {
9        y0 <- runif(1, -pi, pi)
10       u <- runif(1)
11       reject <- u > exp(kappa * (cos(y0) - 1))
12     }
13
14     y[i] <- y0
15   }
16 }
```

Memory

Time

0.7	20
0.5	30

runif  
sample\_vonmises\_slow

runif