method.

```
## Compare the accuracy and runtime for odf method and rejection sampling
par(mfrow=c(1,2))
n <= 1e5
x.crct <- racem(n, mu, sigma)
x.crct <- x.crct[x.crct >= mu.lo]
## Runtime for the cdf method
print(system.time({
 p <- runif(n, 0, 1)
 x.cdf <- cdf.inv(p, mu, mu.lo, signa)</pre>
3))
     user system elapsed
   0.008 0.000 0.008
##
qqp.odf <- qqplot(x.crct, x.cdf, nain = "cdf method vs. truncated rnorm")
abline(0,1)
## Accuracy for the cdf method
corr.cdf <- cor(qqp.cdf$x, qqp.cdf$y)
print(corr.cdf)
## [1] 0.9999782
## Runtime for the rejection sampling method
print(system.time({
 result.rejsamp <- rejsamp(n, mu, mu.lo, sigma)
}))
##
     user system elapsed
     0.020 0.000 0.018
x.rejsamp <- result.rejsamp$x
qqp.rejsamp <- qqplot(x.crct, x.rejsamp, nain = "rejection sampling vs. truncated norn")
abline(0,1)
```