Mean BLB

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```
N <- 50000
r <- 100
gamma <- 0.7
b <- round(N^gamma)
subsets <- 50
replicates <- 1000

out <- mclapply(1:replicates, function(rep){
  # Original data
  x <- rnorm(N)

  out <- lapply(1:subsets, function(sub){
    x_sub <- sample(x, size = b, replace = FALSE)

    blb <- replicate(r, {
      x_sub_boot <- sample(x_sub, size = N, replace = TRUE)
      mean(x_sub_boot)
    })
    ci <- boot:::perc.ci(blb)
    data.frame(lower_ci = ci[4], upper_ci = ci[5])
  })
  out <- do.call(rbind, out)
  out$lower_ci <- mean(out$lower_ci)
  out$upper_ci <- mean(out$upper_ci)
  out
}, mc.cores = 5)

out <- do.call(rbind, out)

cat('Coverage: ', mean(out$lower_ci <= 0 & out$upper_ci >= 0))
```

```
## Coverage:  0.91
```