LCL ## 581.7065 1137.3201 ## attr(,"conf.level") ## [1] 0.9

varTest(x, alternative = 'greater')\$conf.int ## LCL ## 581.7065 ## attr(,"conf.level") ## [1] 0.95

LCL ## 0.00 1137.32 ## attr(,"conf.level") ## [1] 0.95

varTest(x, alternative = 'less')\$conf.int

plot(function(x) dt(x, df = 10), col = 'purple', xlim = c(-5, 5), add = T)

VarCI(x)

k <- 0

for(i in 1:100){

if(3 > is[2])

0.1

a <- rnorm(30, mean = 3, sd = 1);

is <- t.test(a)\$conf.int;

var lwr.ci upr.ci ## 787.5433 549.5342 1222.9353

Simulujeme 100 krat nahodny vyber z normalneho rozdelenia dlzky 30, $\mu=3$ a $\sigma=1$, zratame 95% IS pre kazdu simulaciu, kolko je takych intervalov, ktore nepokryju μ

k < - k + 1;**if**(3 < is[1]) k < - k + 1;

[1] 6 Nakreslime hustotu N(0, 1) a zopar hustot studentovho t rozdelenia s roznymi stupnami volnosti, porovname tvary kriviek plot(function(x) dnorm(x, 0, 1), xlim = c(-5, 5)) plot(function(x) dt(x, df = 2), col = 'green', xlim = c(-5, 5), add = T)plot(function(x) dt(x, df = 4), col = 'red', xlim = c(-5, 5), add = T)

0.4 function(x) dnorm(x, 0, 1) 0.3