

# multiSeg Vignette

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Introduction

Pruning

## Introduction

Loading the package

```
library(multiSeg)
```

Choosing parameters to simulate data.

```
n <- 500  
var <- 1  
means <- matrix(c(0,1,2,1,0,1,2,2,0,0,1,1),3,4)  
changes <- c(0.3,0.6,1)
```

Data simulation

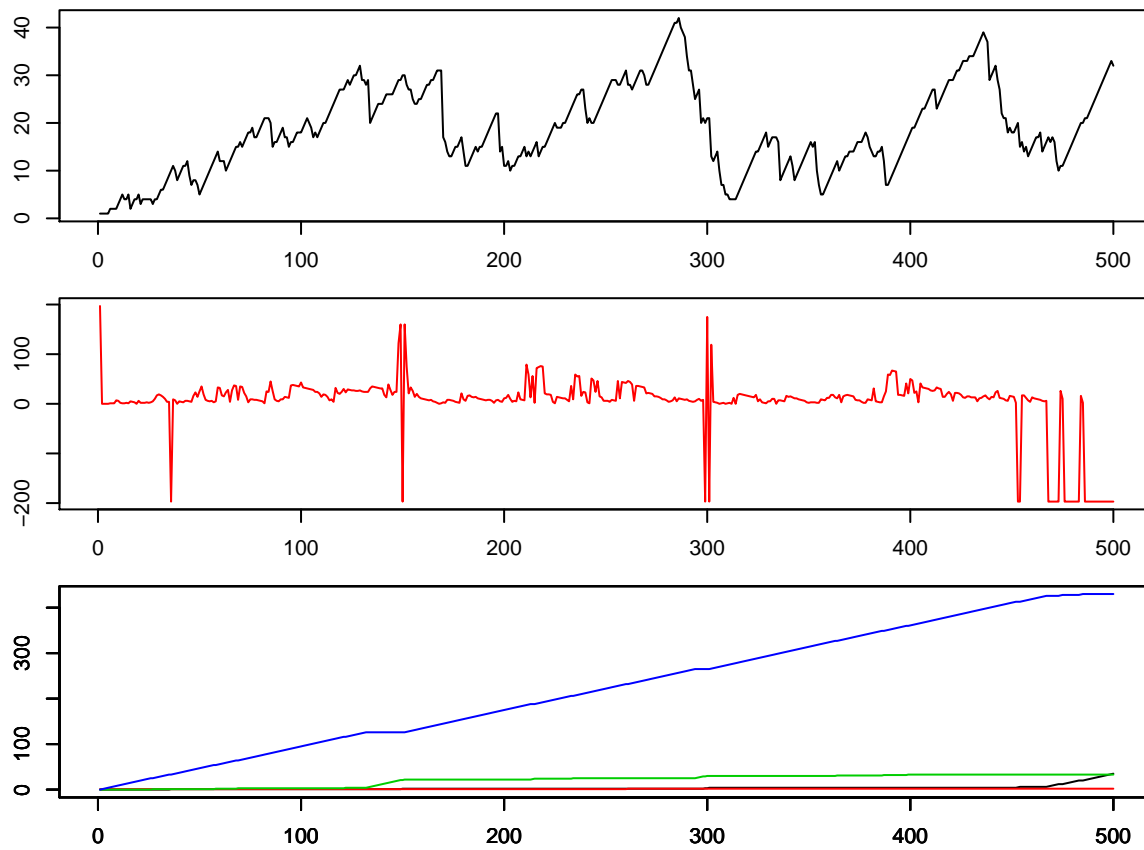
```
data <- dataG(n,means,changes, var)
```

Segmentation algorithm

```
file = paste(getwd(),"/dataG.txt",sep = "")  
res <- multiSeg(file,4*2*log(n),3)
```

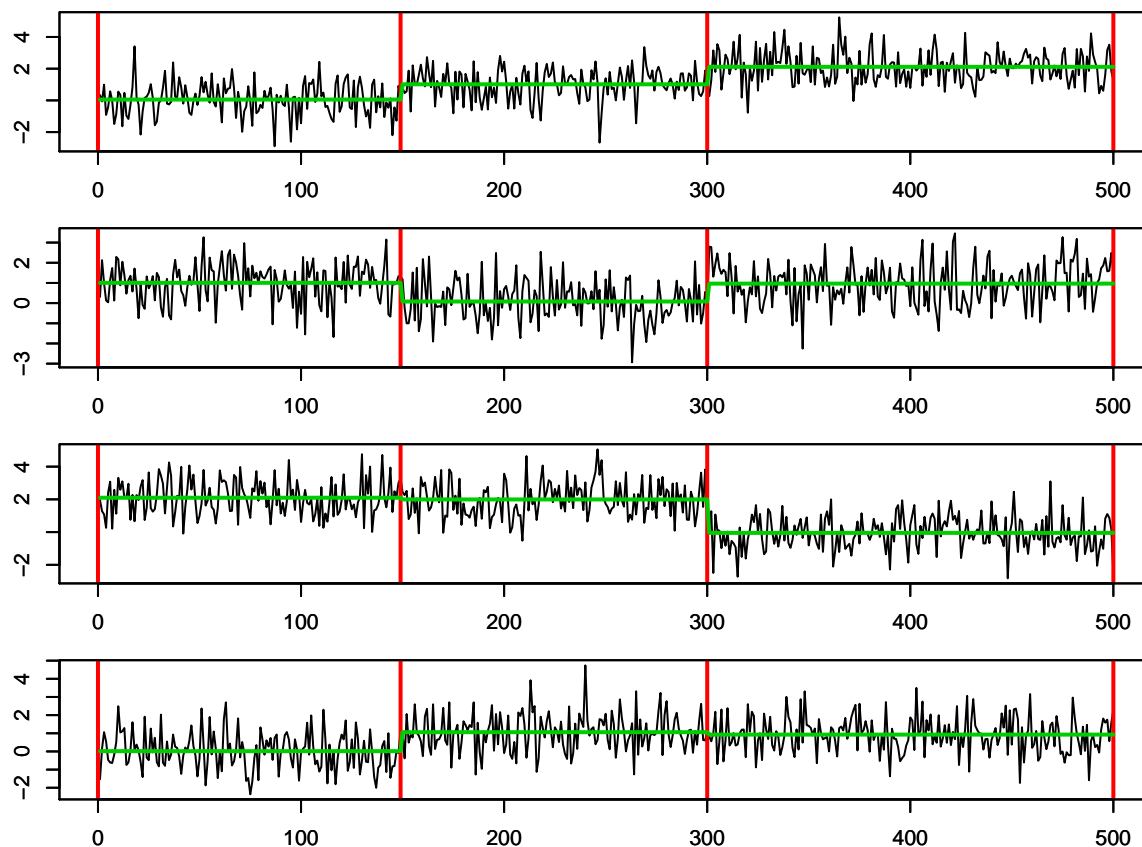
Plots

```
pruning(res)
```



```
segmentation(file,res)
```

```
## [1] 0 149 300 500
```



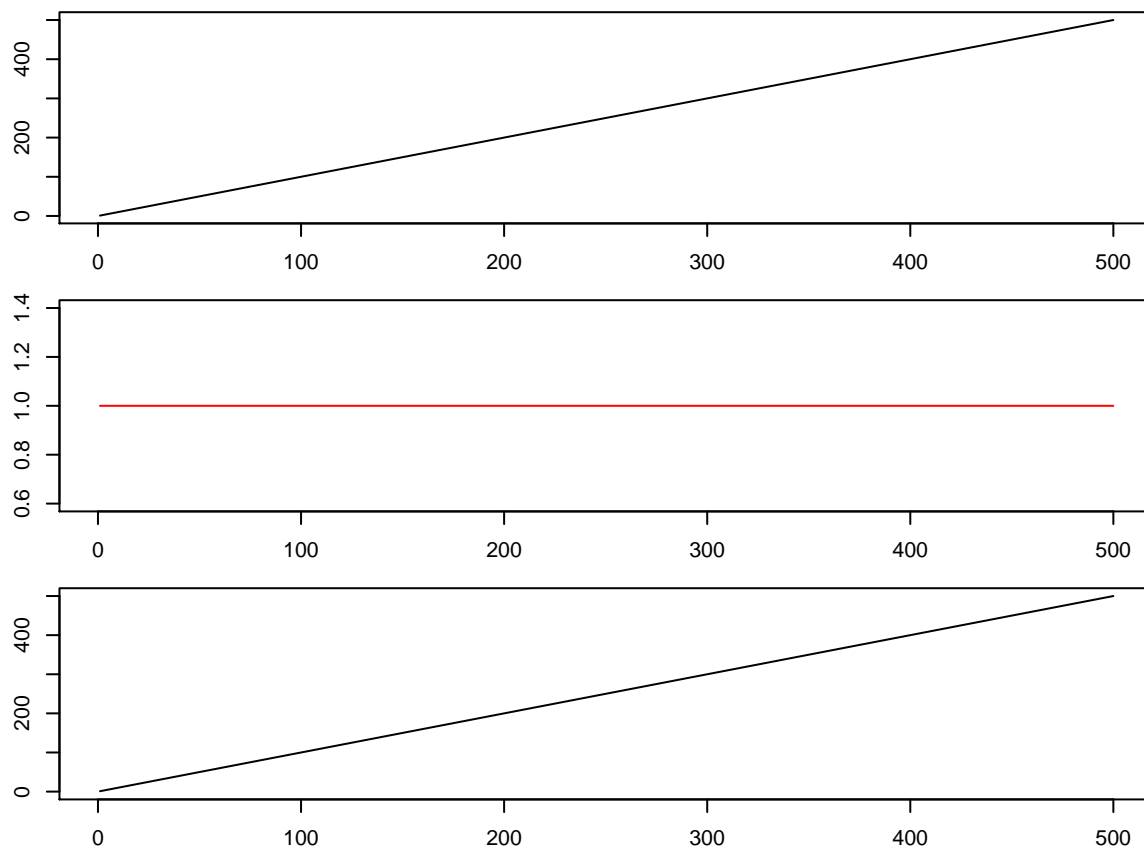
```
changepoints(res)
```

```
## [1] 0 149 300 500
```

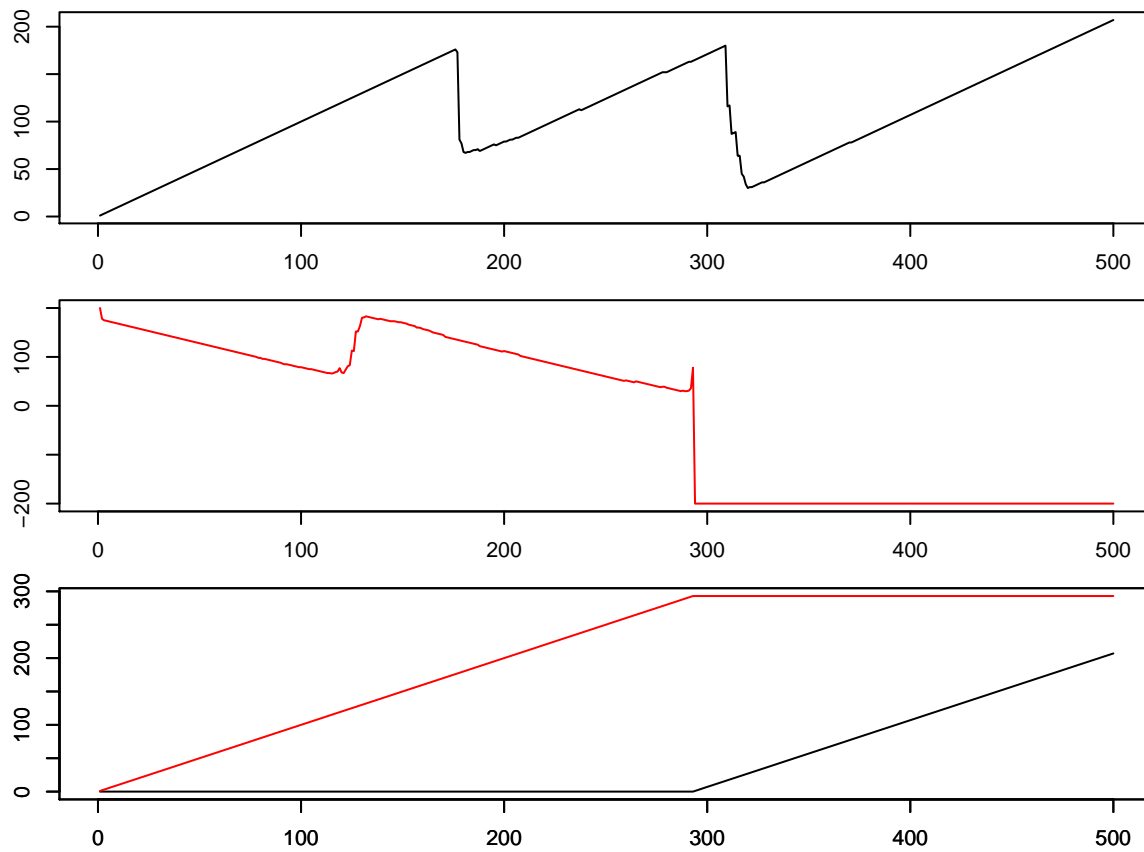
## Pruning

```
n <- 500
var <- 1
means <- matrix(c(0,1,2,1,0,1,2,2,0,0,1,1),3,4)
changes <- c(0.3,0.6,1)
data <- dataG(n,means,changes, var)
file = paste(getwd(),"/dataG.txt",sep = "")
```

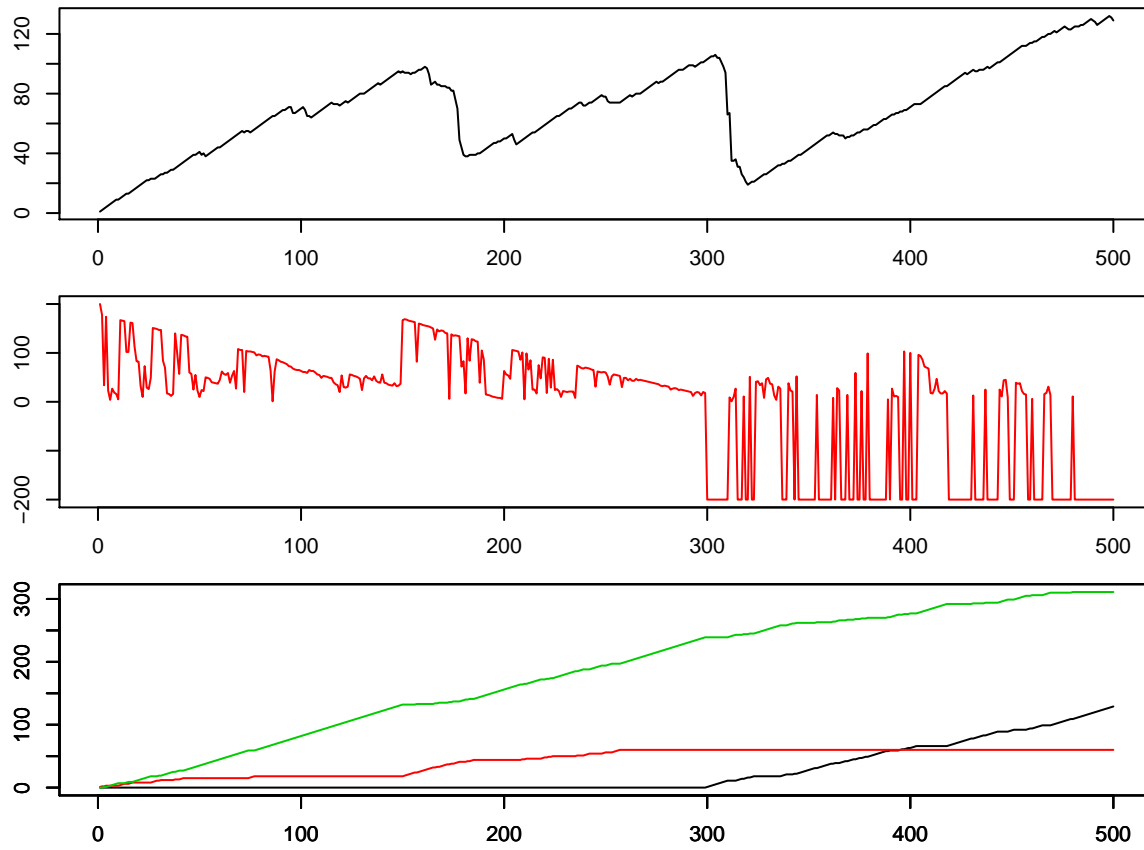
```
res <- multiSeg(file,4*2*log(n),0)
pruning(res)
```



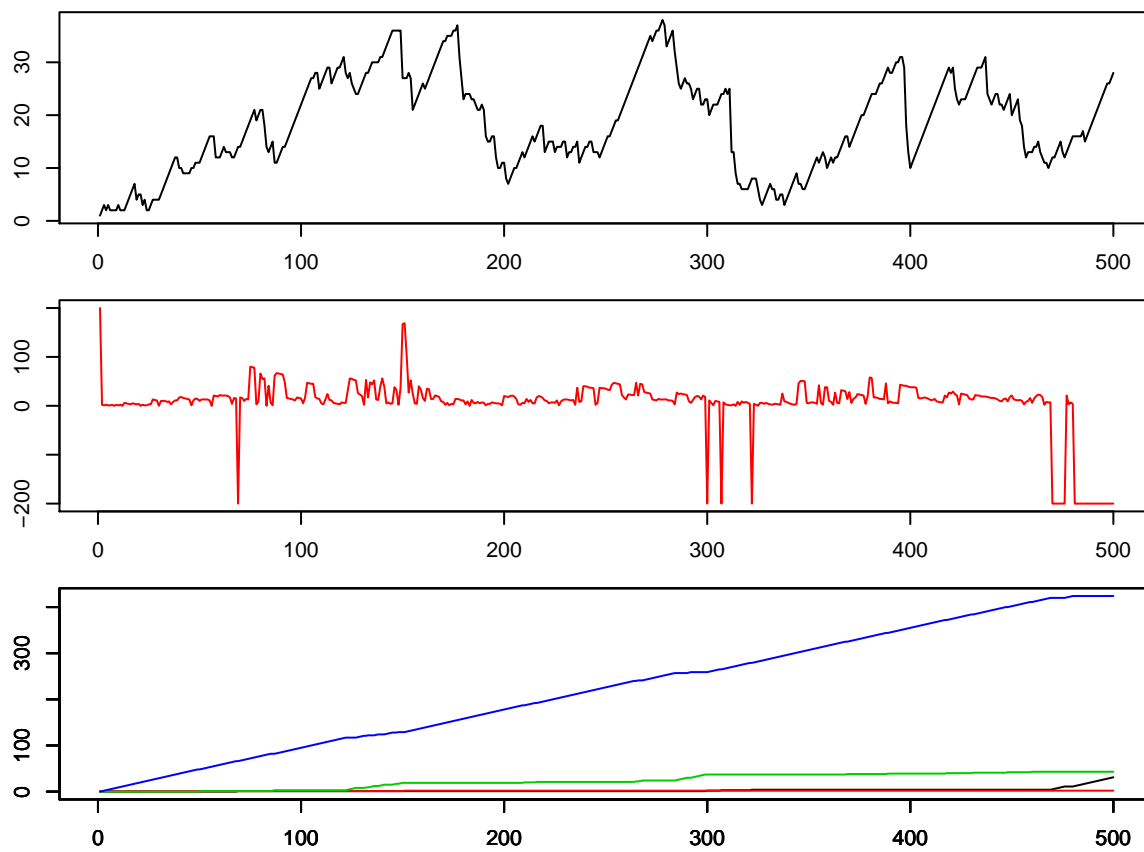
```
res <- multiSeg(file,4*2*log(n),1)
pruning(res)
```



```
res <- multiSeg(file,4*2*log(n),2)
pruning(res)
```



```
res <- multiSeg(file,4*2*log(n),3)
pruning(res)
```



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