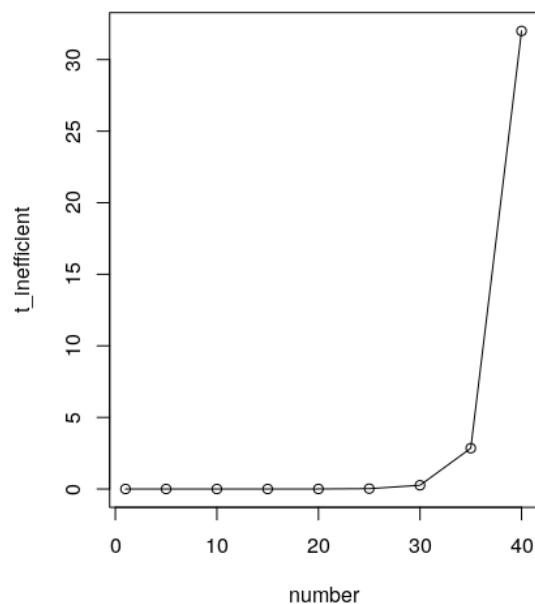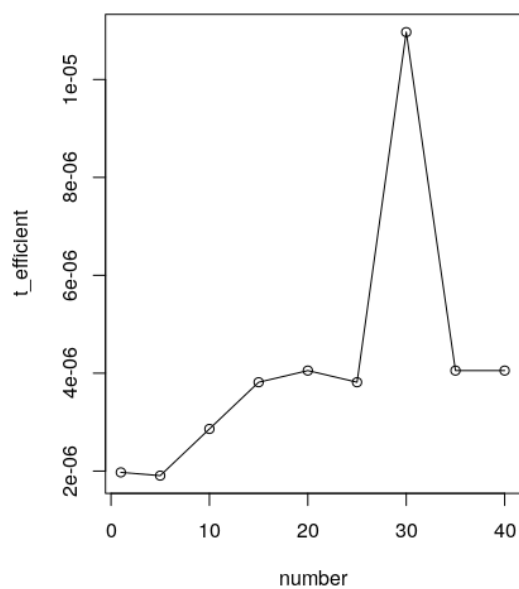LENZ René   c18102004

Efficient Fibonacci algorithm vs inefficient Fibonacci algorithm

The plots show the two algorithms and the time they need to calculate the following Fibonacci Numbers: 1, 5, 10, 15, 20, 25, 30, 35, 40
The time (y-axis) is measured in seconds

The effective algorithm shows nearly no differences in time to calculate the numbers except from one „outlier". But even this value is close to the others. The ineffective algorithm is scaling up exponentially.

Effective: green
Ineffective: red