

analysis

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Introduction

... ## Dataset

The dataset is generated by a program that save the samples in a CSV files.

Setting the directory to the data directory.

```
getwd()
```

```
## [1] "/Users/Marine/Documents/1_KTH/4_Courses/3_RMSW/Script"
```

```
setwd("/Users/Marine/Documents/1_KTH/4_Courses/3_RMSW/Script")
```

```
getwd()
```

```
## [1] "/Users/Marine/Documents/1_KTH/4_Courses/3_RMSW/Script"
```

Read in data frame.

```
mdfN <- read.csv("timeN.txt",header=T,sep=';',stringsAsFactors = F)
```

```
mdfColor <- read.csv("timeColor.txt",header=T,sep=';',stringsAsFactors = F)
```

```
mdfN_ILP <- read.csv("timeN_ILP.txt",header=T,sep=';',stringsAsFactors = F)
```

```
mdfColor_ILP <- read.csv("timeColor_ILP.txt",header=T,sep=';',stringsAsFactors = F)
```

```
# check what variables are there
```

```
#names(mdfN)
```

```
#summary(mdfN)
```

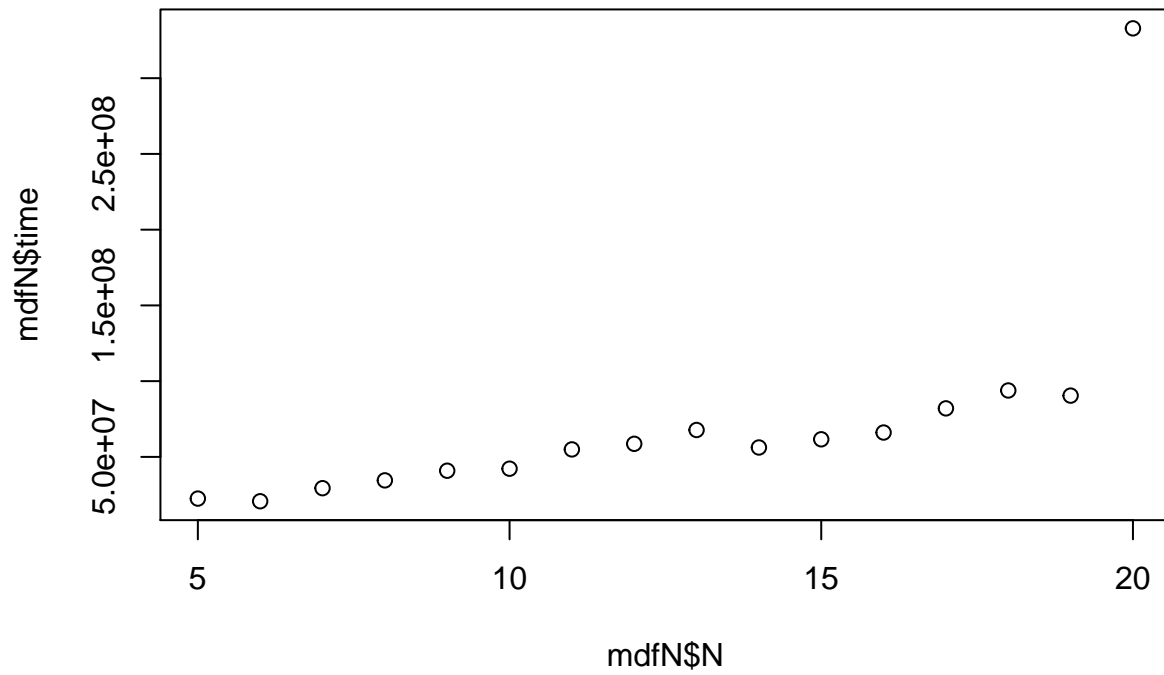
```
#names(mdfColor)
```

```
#summary(mdfColor)
```

```
#Plot timeN
```

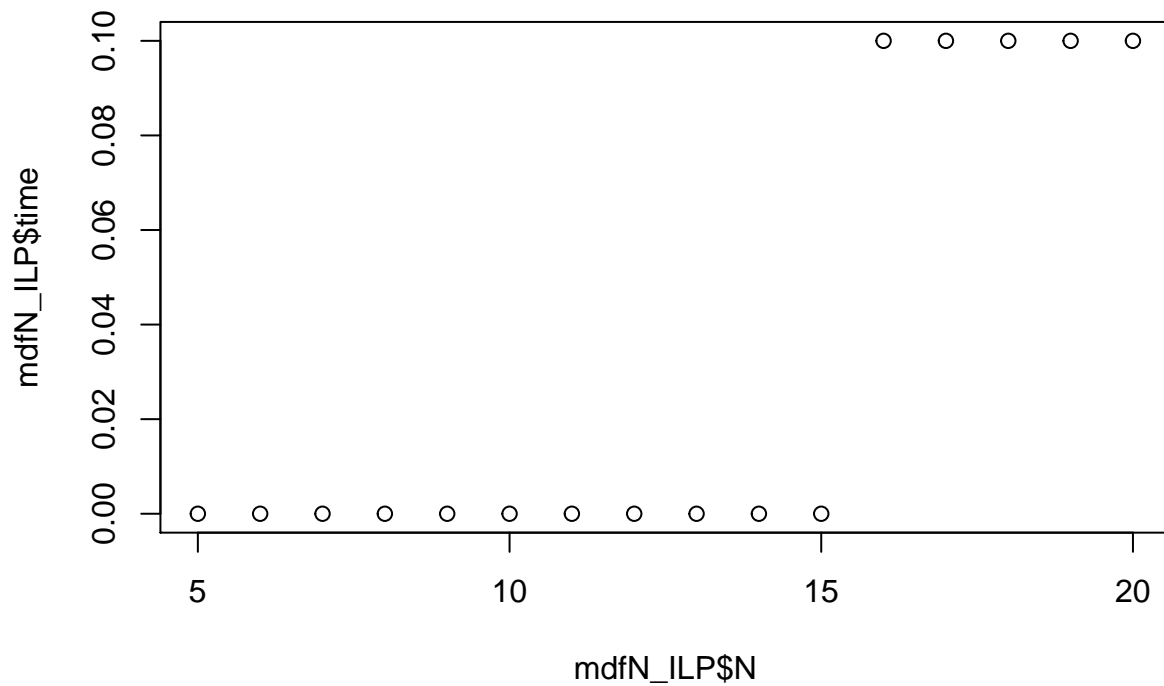
```
plot(mdfN$N, mdfN$time, main="Running time in ns for 4 colors available (our implementation)")
```

Running time in ns for 4 colors available (our implementation)



```
plot(mdfN_ILP$N, mdfN_ILP$time, main="Running time in s for 4 colors available (ILP)")
```

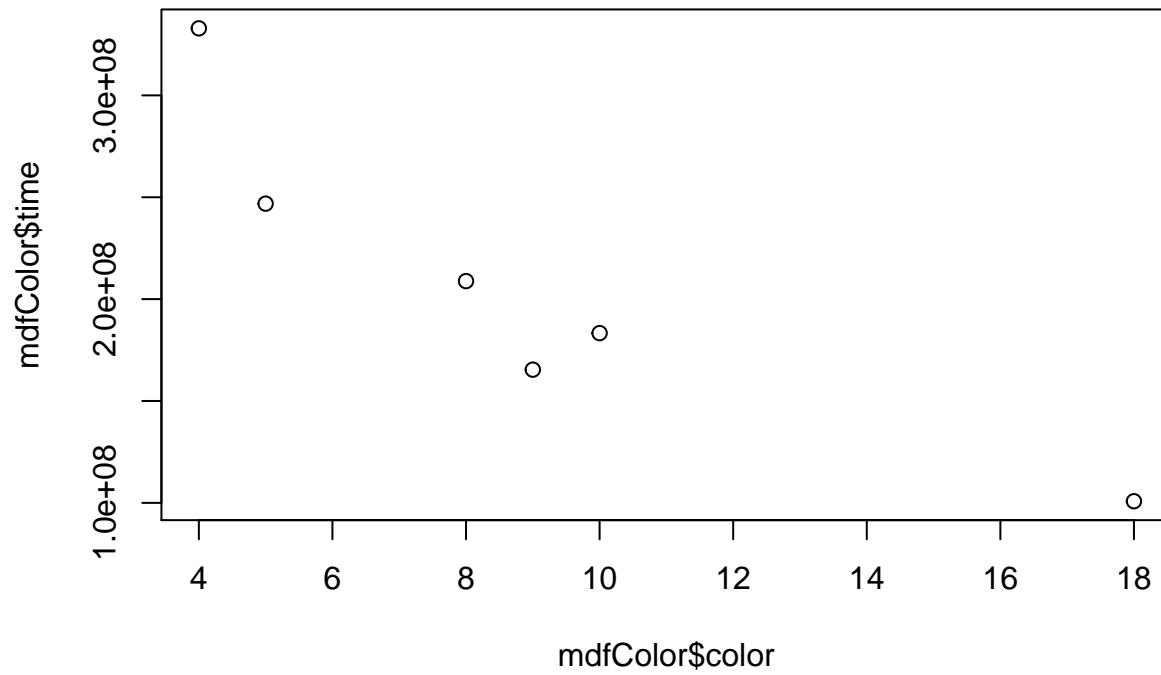
Running time in s for 4 colors available (ILP)



```
#Plot timeColor
```

```
plot(mdfColor$color, mdfColor$time, main="Running time in ns for a fixed size of graph (our implementat")
```

Running time in ns for a fixed size of graph (our implementation)



```
plot(mdfColor_ILP$color, mdfColor_ILP$time, main="Running time in s a fixed size of graph (ILP)")
```

Running time in s a fixed size of graph (ILP)

