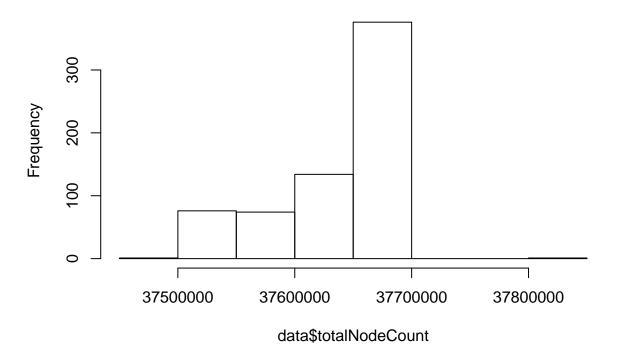
Optimal SearchSettings

Petr Lezak

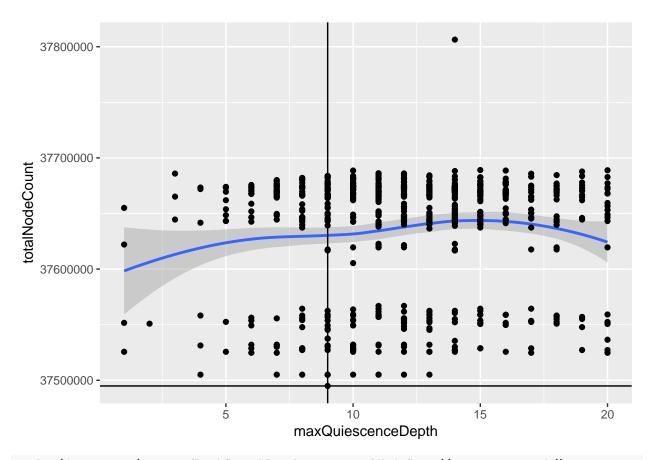
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```
rawData <- read.csv('statistics.csv');</pre>
rawDataCount <- nrow(rawData);</pre>
droppedRows = round(0.02 * rawDataCount);
data <- rawData[order(rawData$totalNodeCount), ][droppedRows:rawDataCount, ];</pre>
minNodeCount <- min(data$totalNodeCount);</pre>
minRow <- data[data$totalNodeCount == minNodeCount, ];</pre>
minRow
     \verb|maxQuiescenceDepth| \verb|maxCheckSearchDepth| null \verb|MoveReduction| \\
##
## 2
     \verb|minExtensionHorizo| simpleCheckExtension| attackCheckExtension|
##
                                         0.2558594
    forcedMoveExtension mateExtension rankAttackExtension
##
## 2
                 0.5947266
##
     \verb"pawnOnSevenRankExtension" protectingPawnOnSixRankExtension"
     {\tt recapture Min Extension} \ {\tt recapture Max Extension} \ {\tt recapture Begin Min Treshold}
##
                                            0.5351562
## 2
     recapture Begin Max Treshold recapture Target Treshold total Time
## 2
                            5.597
                                                       0.074
    totalNodeCount
##
## 2
            37494897
hist(data$totalNodeCount)
```

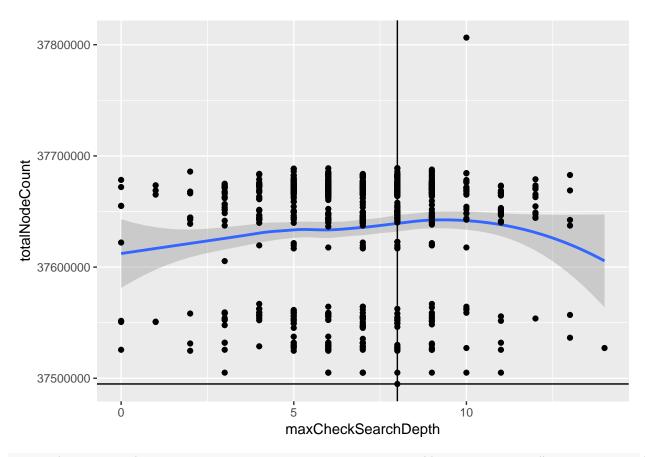
Histogram of data\$totalNodeCount



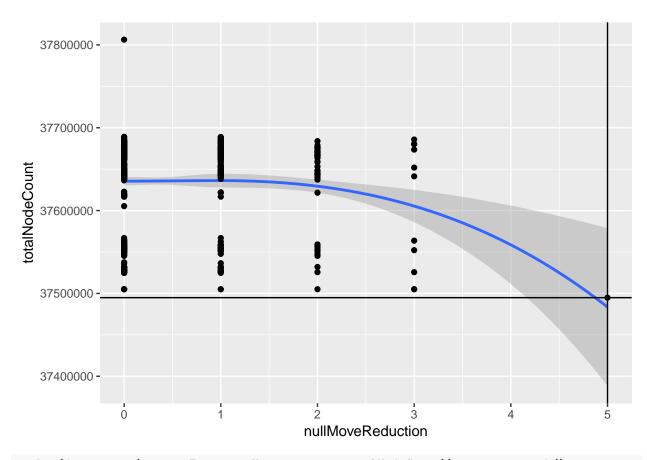
```
geom = 'smooth';
ggplot(data, aes (x = maxQuiescenceDepth, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_vl
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



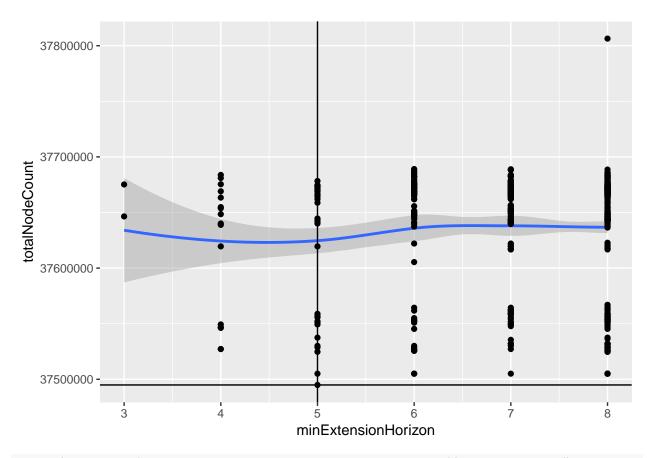
ggplot(data, aes (x = maxCheckSearchDepth, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_v
`geom_smooth()` using method = 'loess' and formula 'y ~ x'



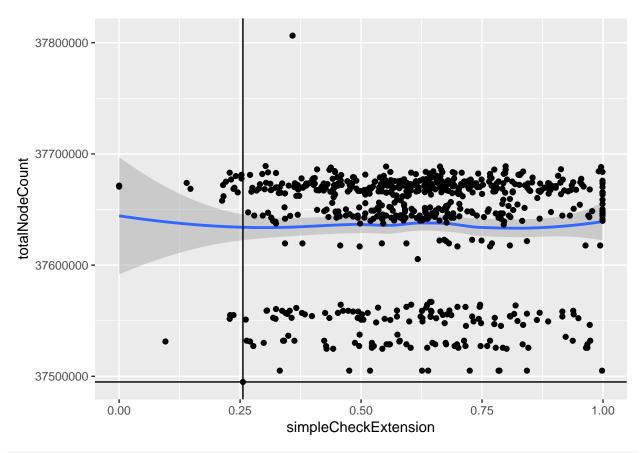
```
ggplot(data, aes (x = nullMoveReduction, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_vli:
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



ggplot(data, aes (x = minExtensionHorizon, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_v
`geom_smooth()` using method = 'loess' and formula 'y ~ x'

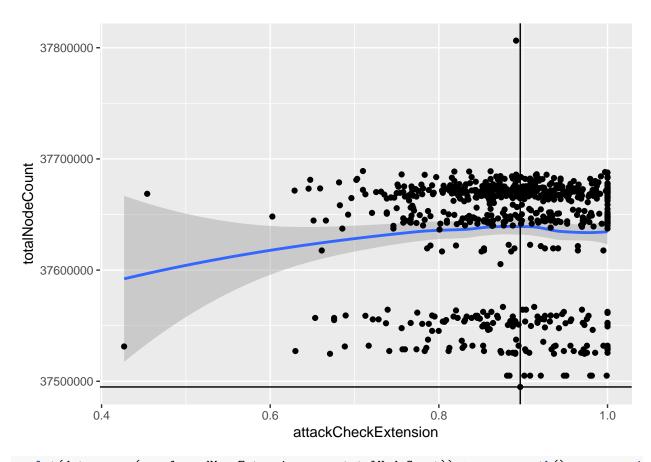


ggplot(data, aes (x = simpleCheckExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_smooth()` using method = 'loess' and formula 'y ~ x'

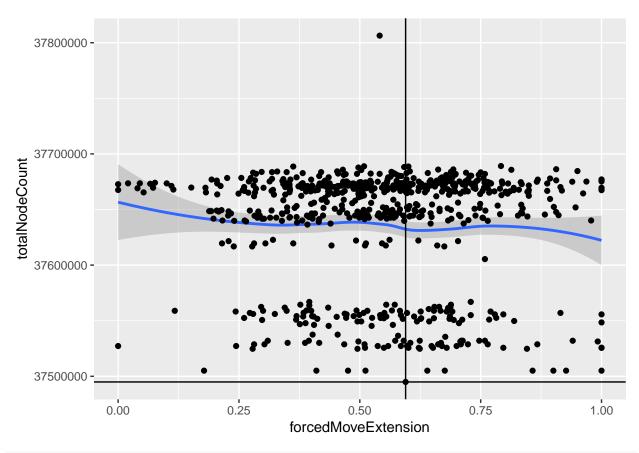


ggplot(data, aes (x = attackCheckExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_

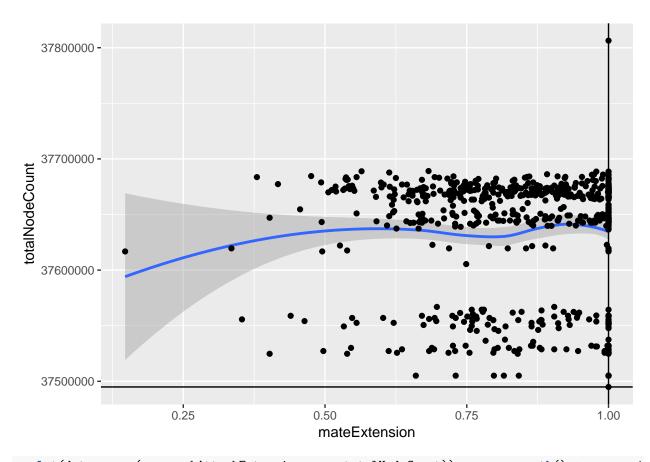
$geom_smooth()$ using method = 'loess' and formula 'y ~ x'



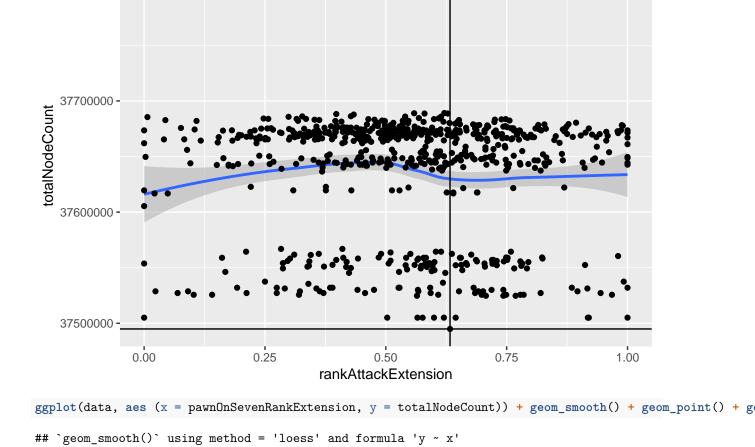
ggplot(data, aes (x = forcedMoveExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_v
`geom_smooth()` using method = 'loess' and formula 'y ~ x'



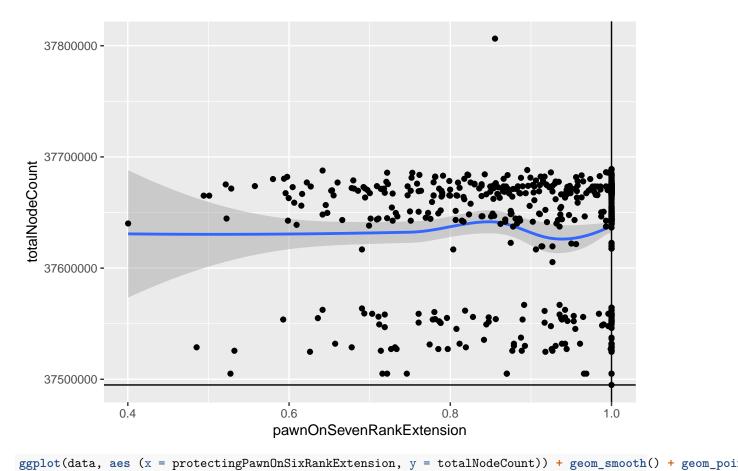
ggplot(data, aes (x = mateExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_vline(x



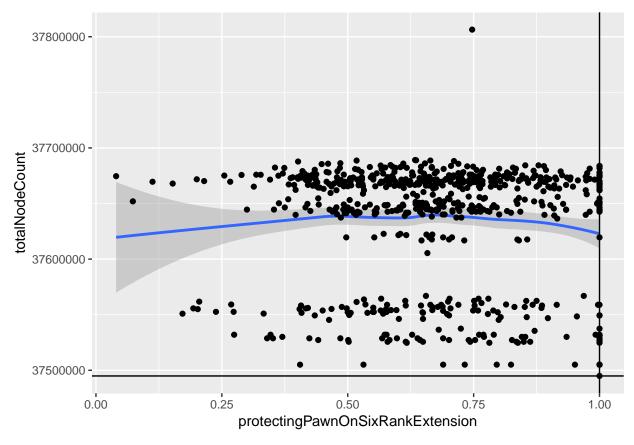
ggplot(data, aes (x = rankAttackExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_v
`geom_smooth()` using method = 'loess' and formula 'y ~ x'



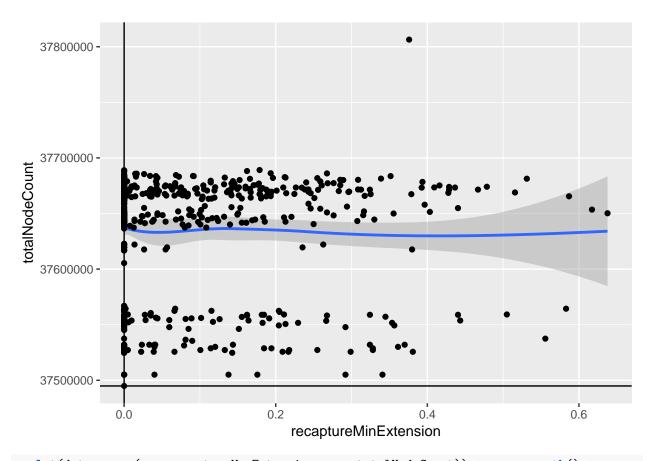
37800000 -



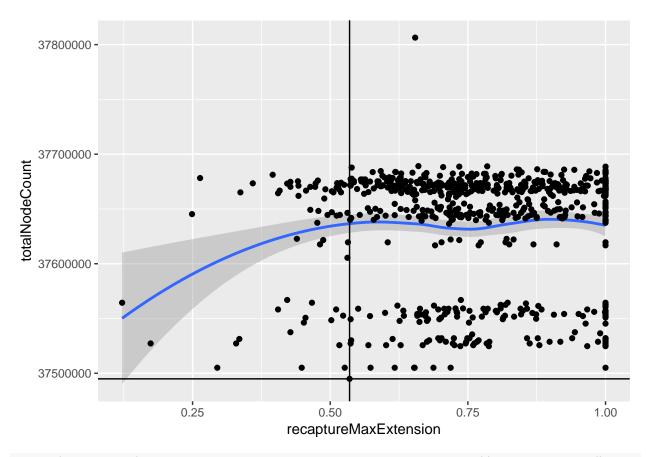
$geom_smooth()$ using method = 'loess' and formula 'y ~ x'



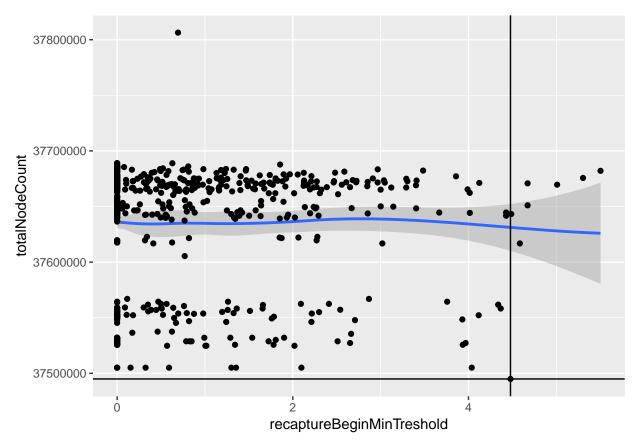
```
ggplot(data, aes (x = recaptureMinExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



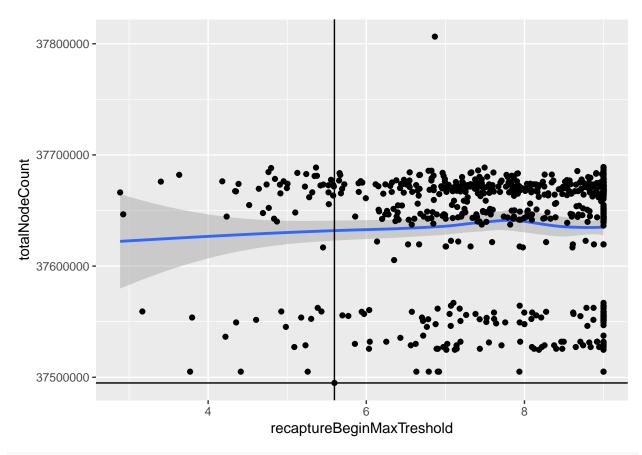
ggplot(data, aes (x = recaptureMaxExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom
`geom_smooth()` using method = 'loess' and formula 'y ~ x'



```
ggplot(data, aes (x = recaptureBeginMinTreshold, y = totalNodeCount)) + geom_smooth() + geom_point() +
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



```
ggplot(data, aes (x = recaptureBeginMaxTreshold, y = totalNodeCount)) + geom_smooth() + geom_point() +
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



```
ggplot(data, aes (x = recaptureTargetTreshold, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_smooth()` using method = 'loess' and formula 'y ~ x'
```

