

new_benchmarking

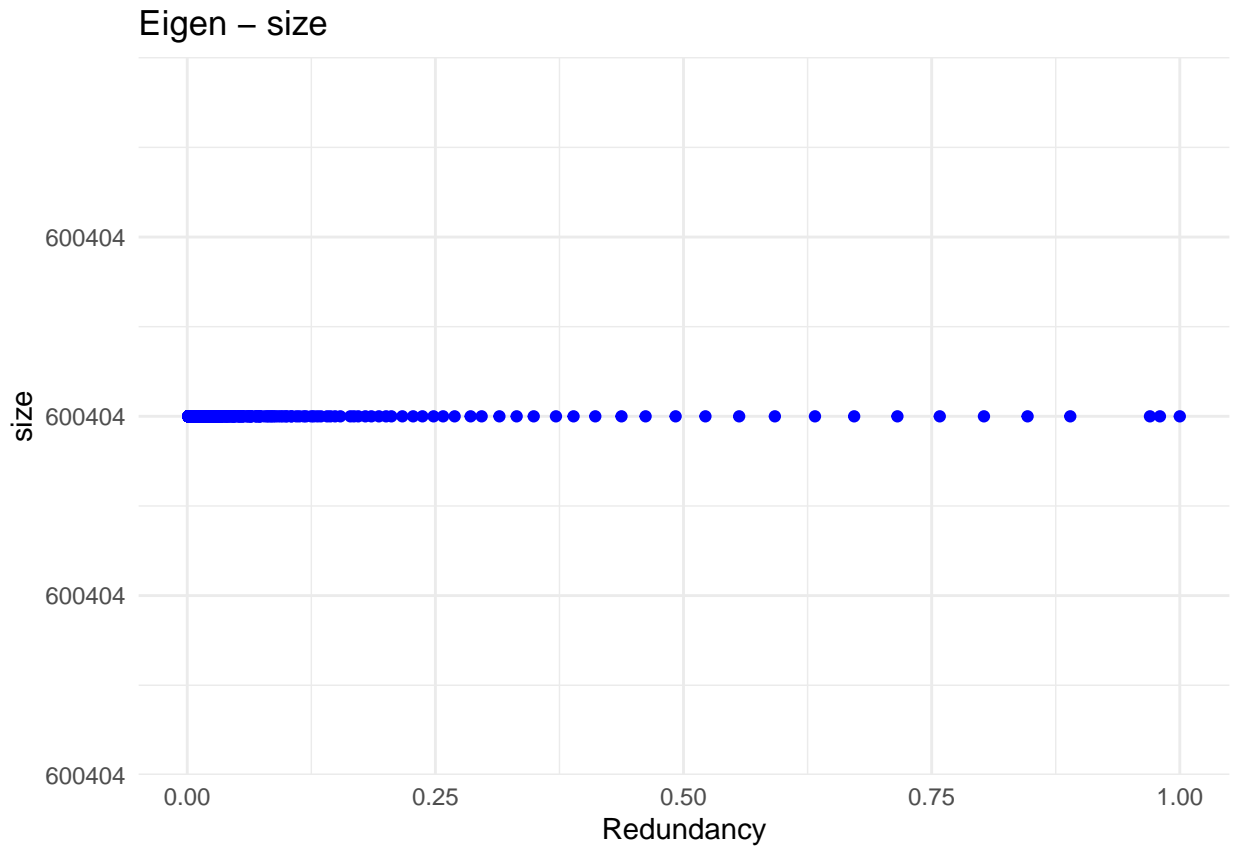
2023-07-21

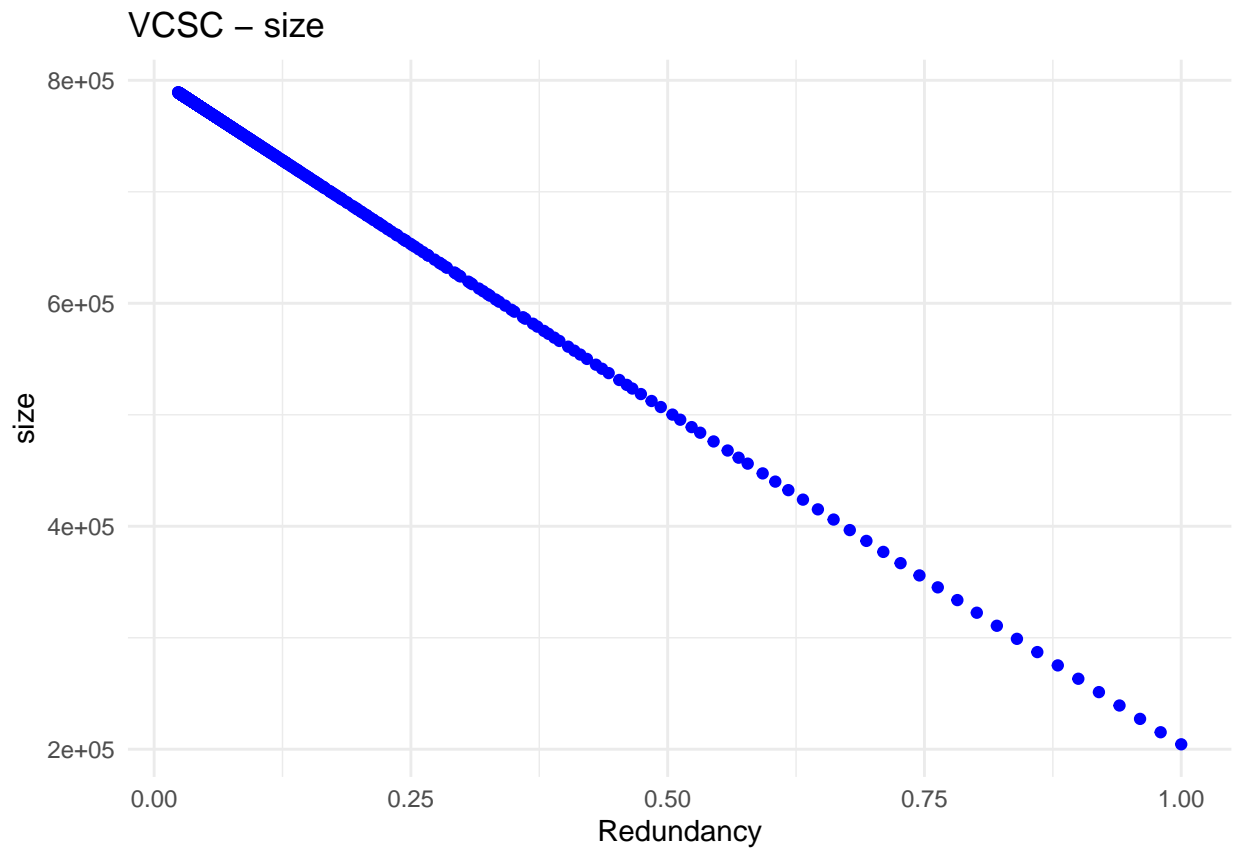
```
##
## Attaching package: 'dplyr'
##
## The following objects are masked from 'package:stats':
##
##   filter, lag
##
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

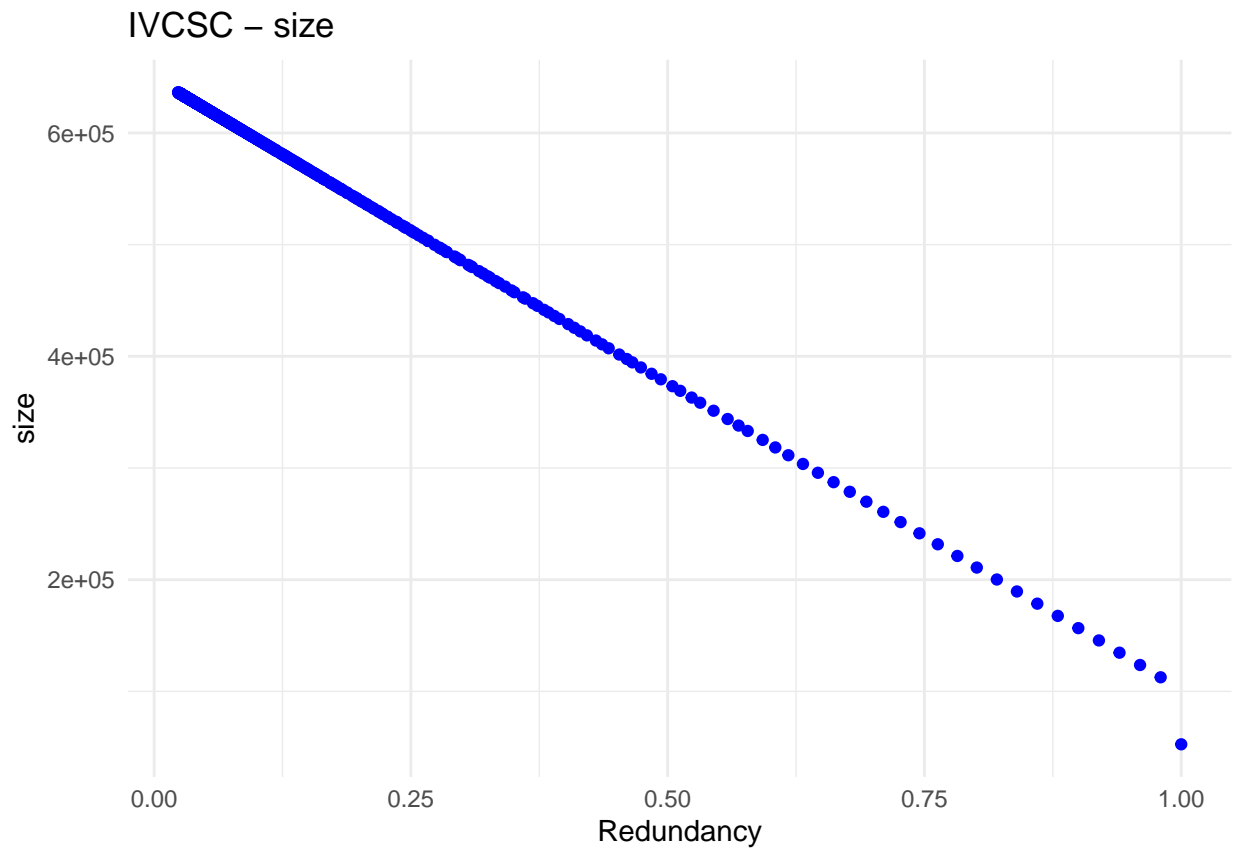
Averages of Data at 5% Density

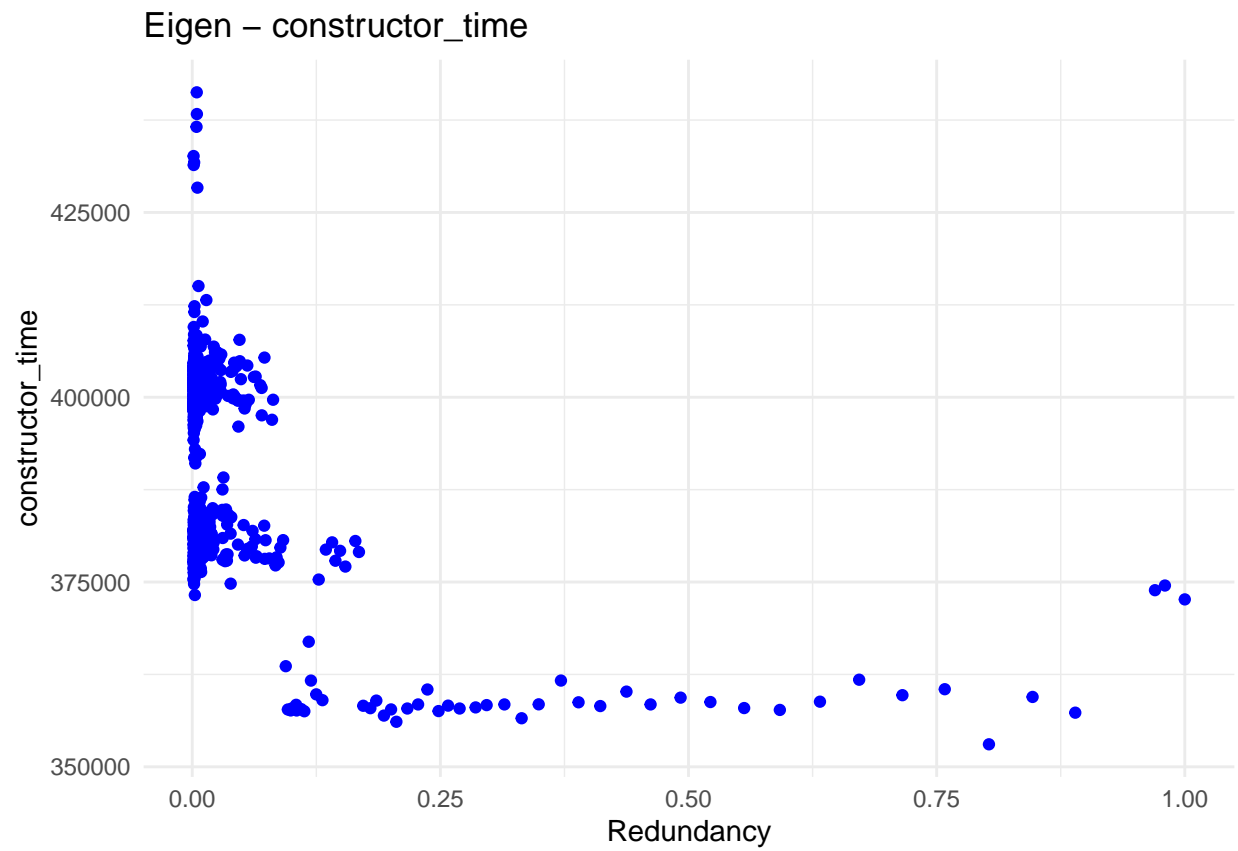
```
## Warning: Using an external vector in selections was deprecated in tidysselect 1.1.0.
## i Please use `all_of()` or `any_of()` instead.
##   # Was:
##   data %>% select(y_col)
##
##   # Now:
##   data %>% select(all_of(y_col))
##
## See <https://tidysselect.r-lib.org/reference/faq-external-vector.html>.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.

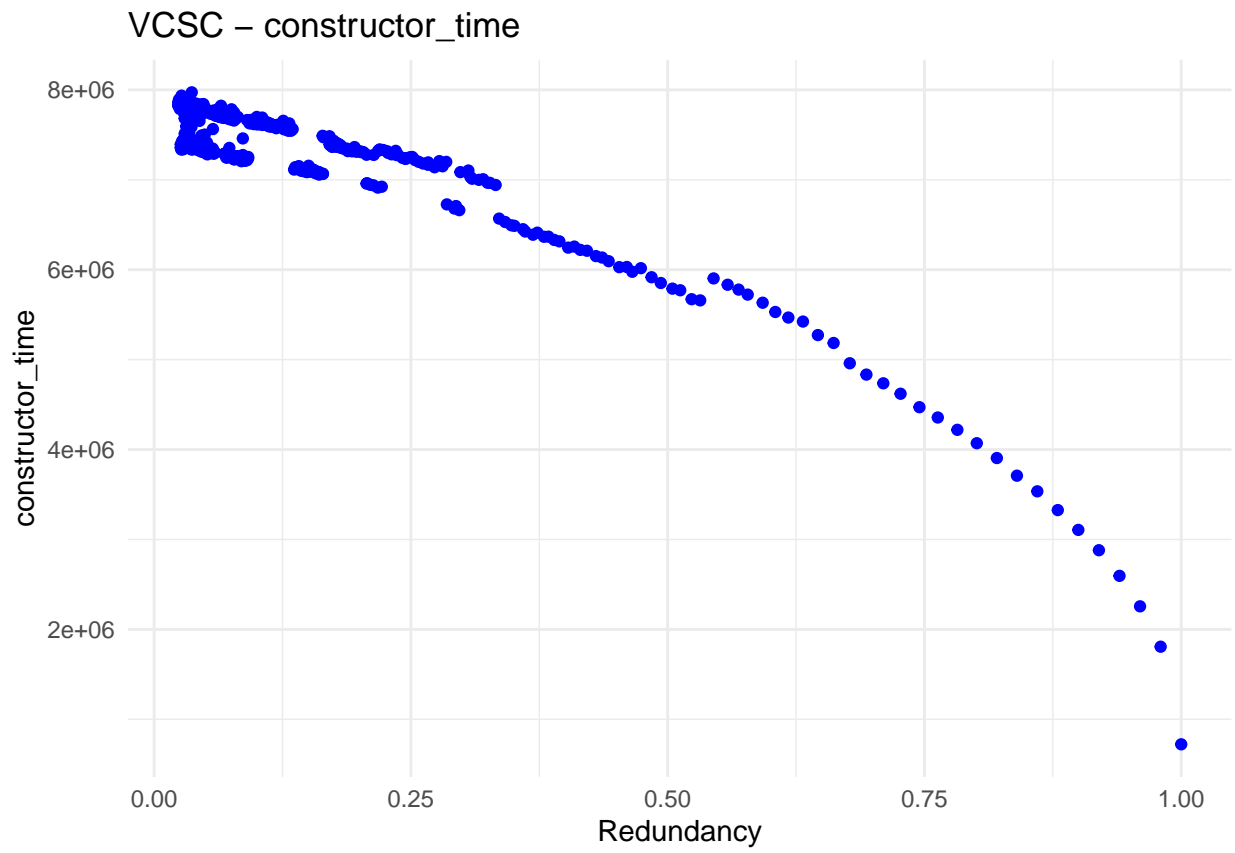
## Warning: `aes_string()` was deprecated in ggplot2 3.0.0.
## i Please use tidy evaluation idioms with `aes()`.
## i See also `vignette("ggplot2-in-packages")` for more information.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

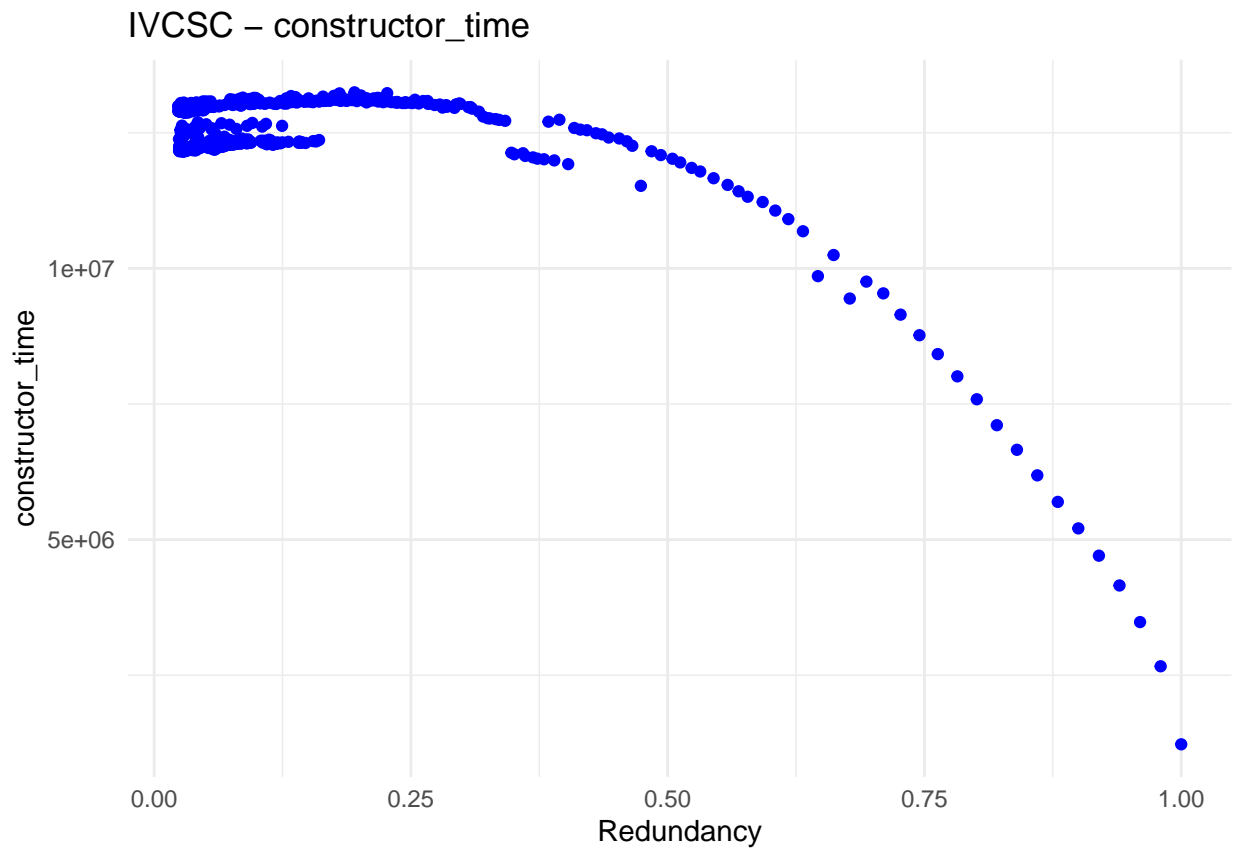


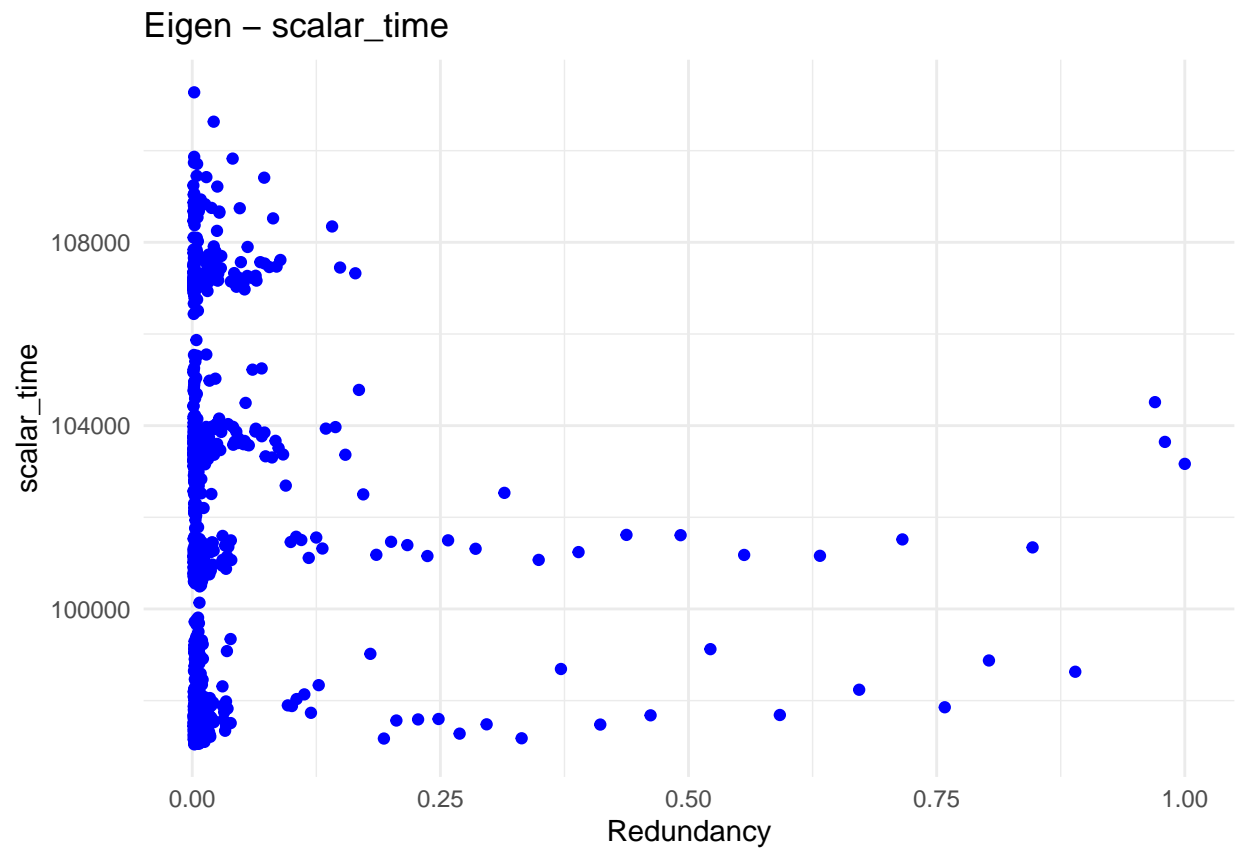


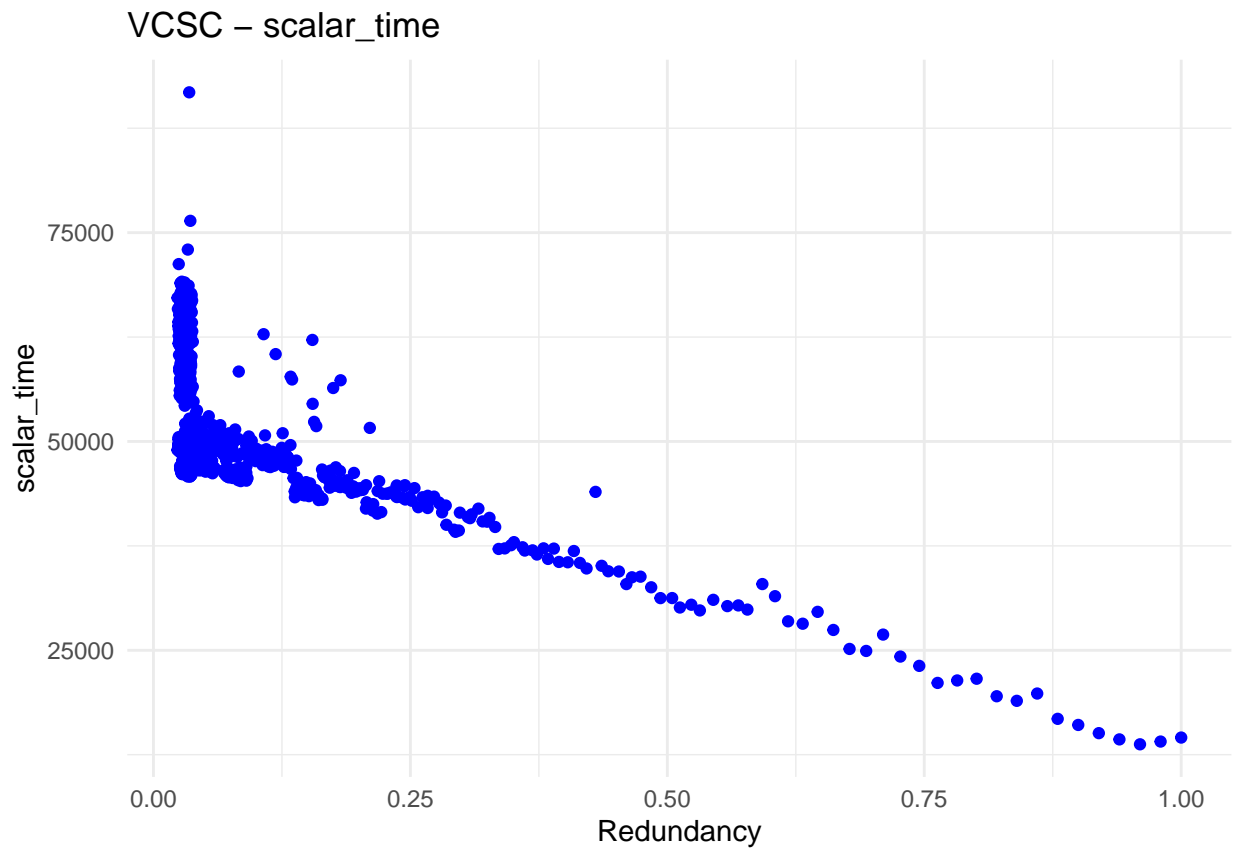


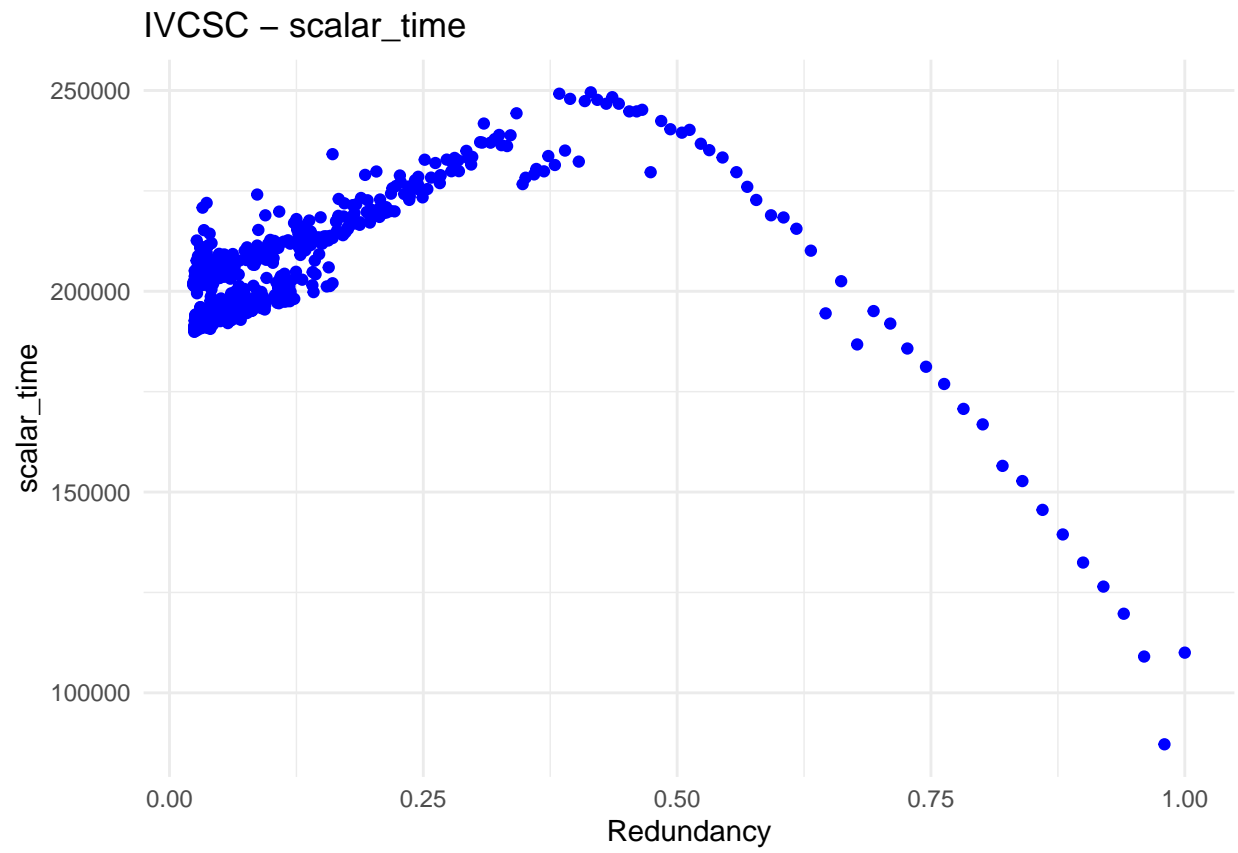


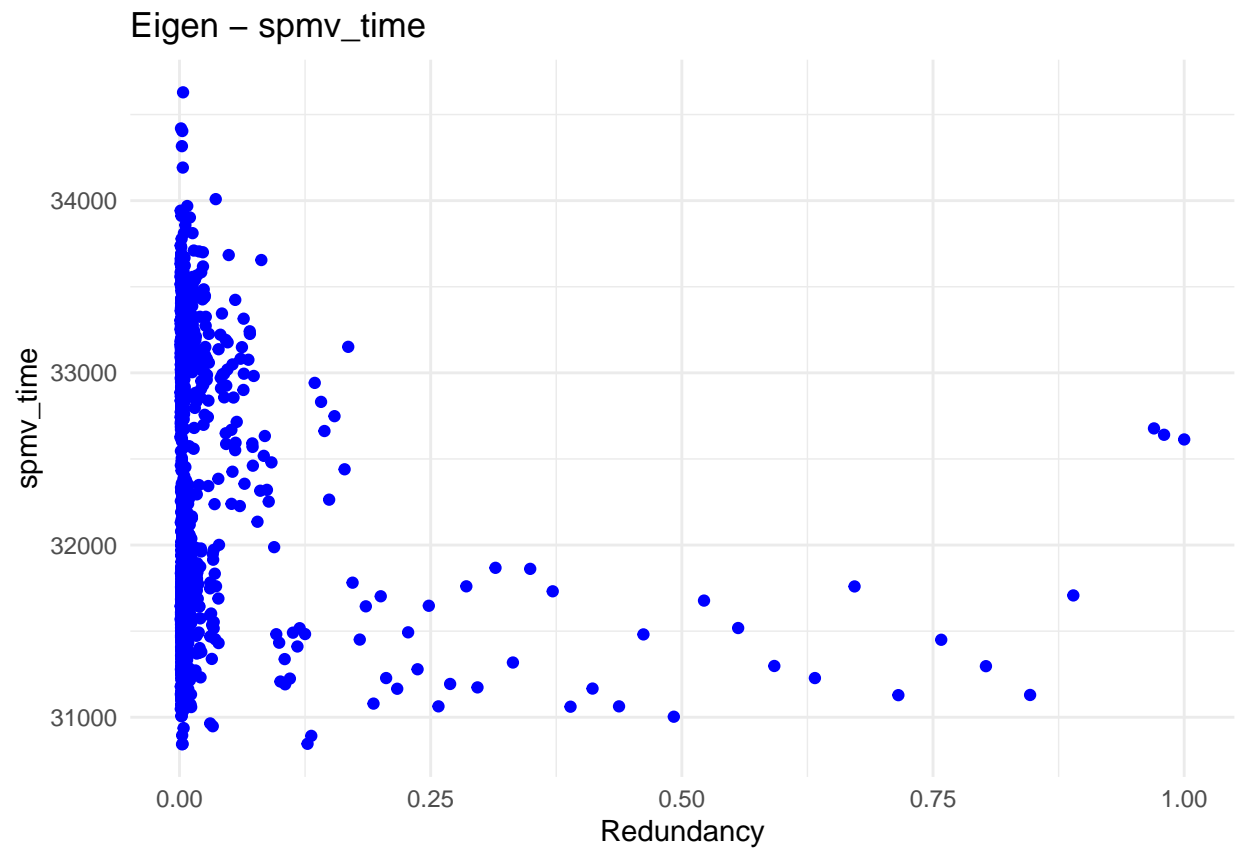


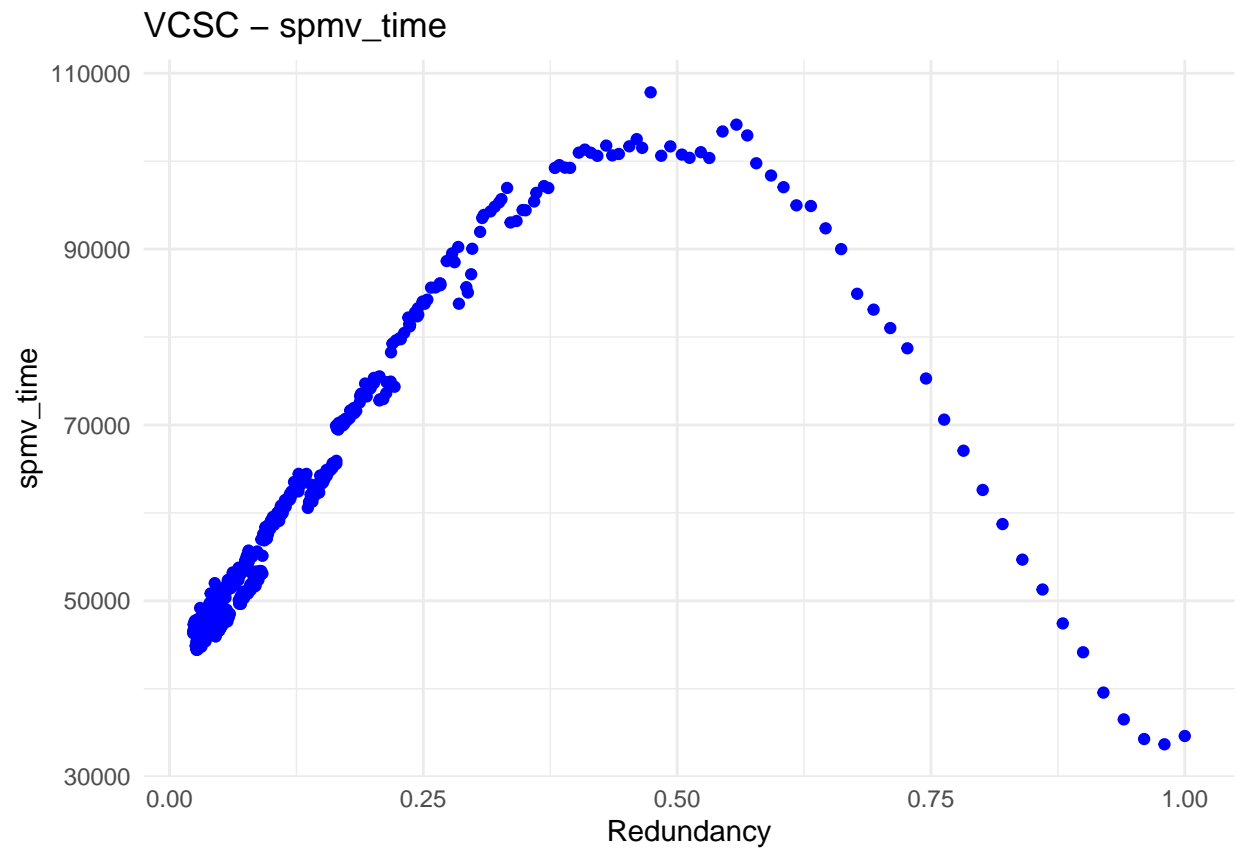


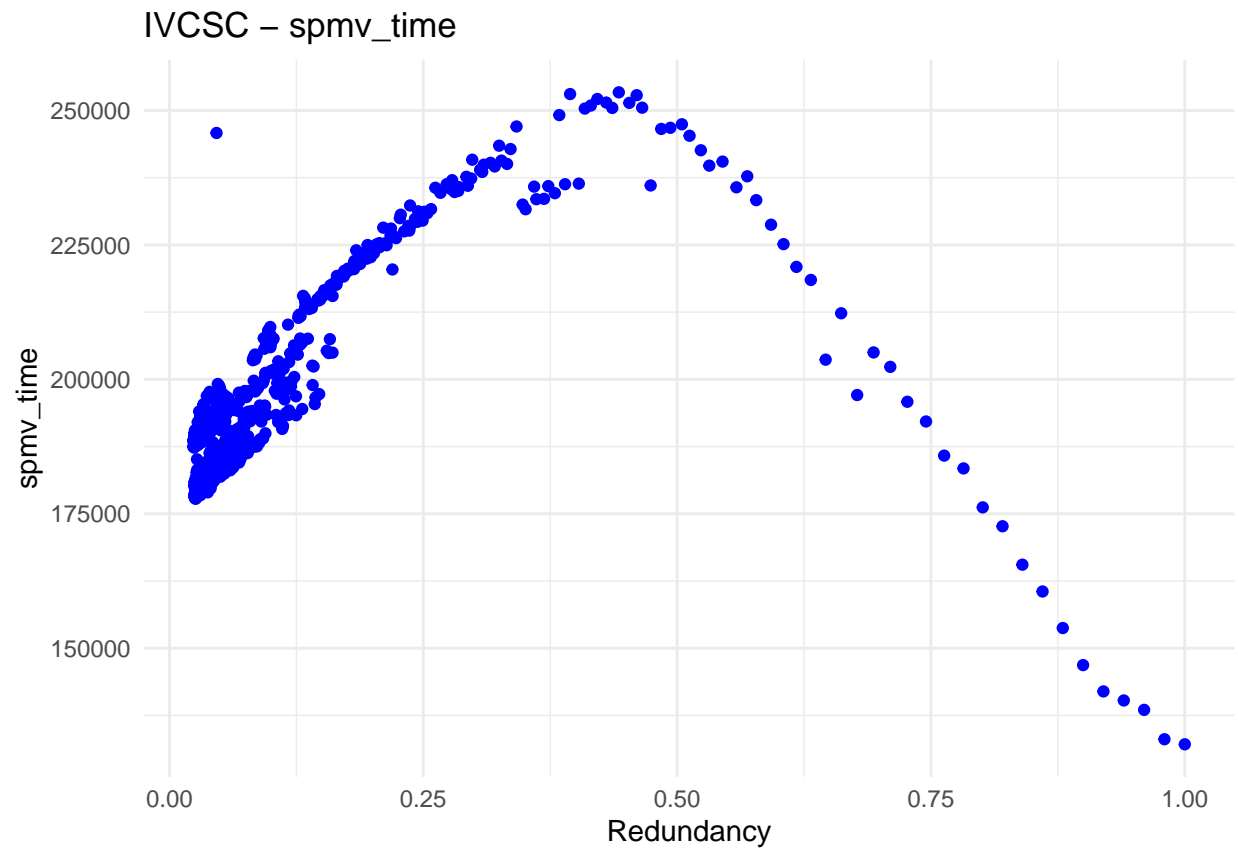


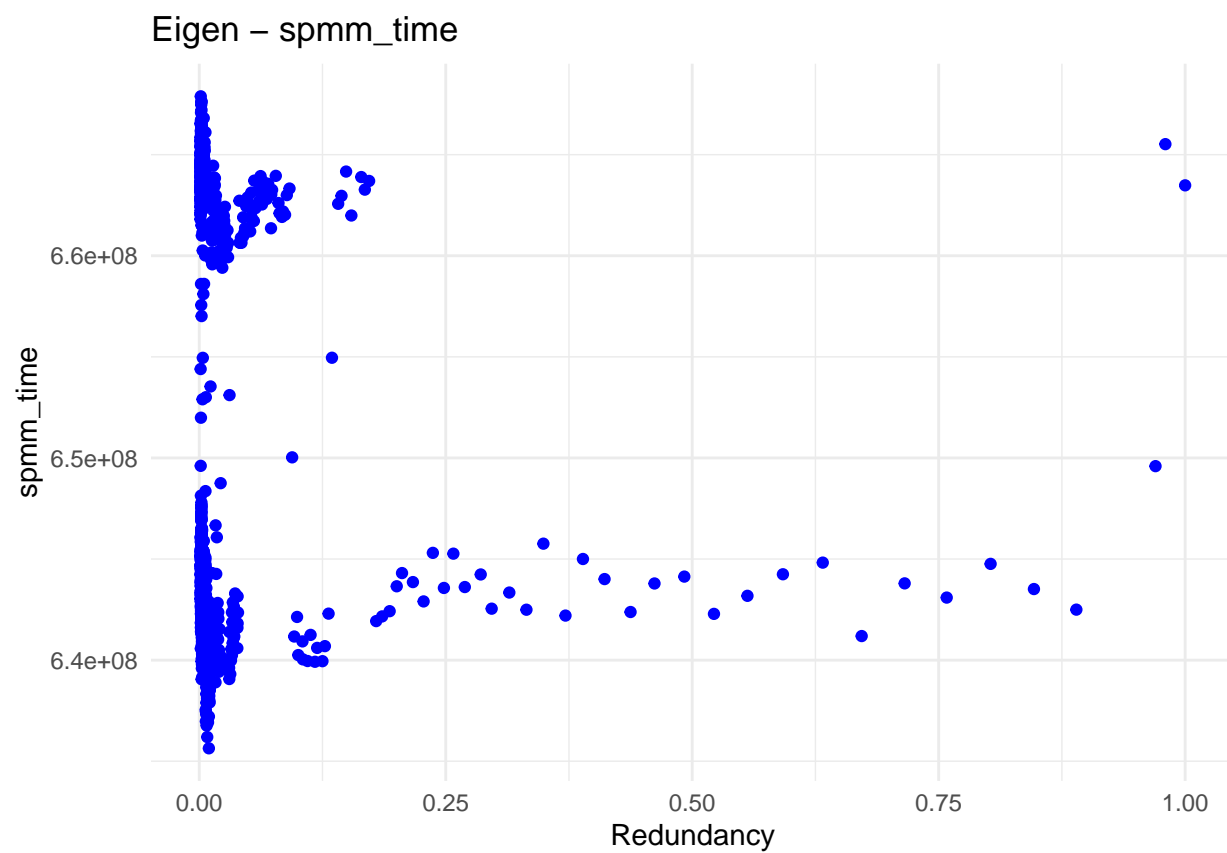


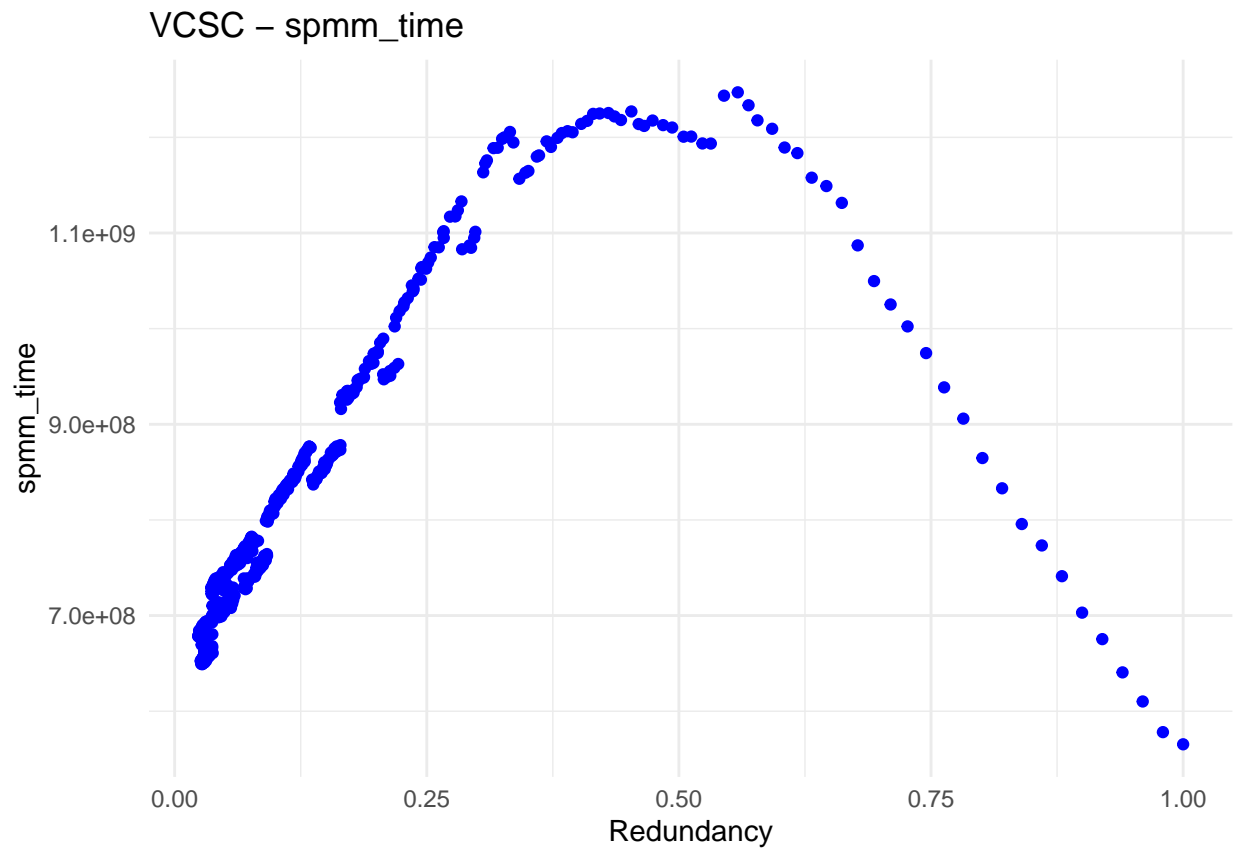


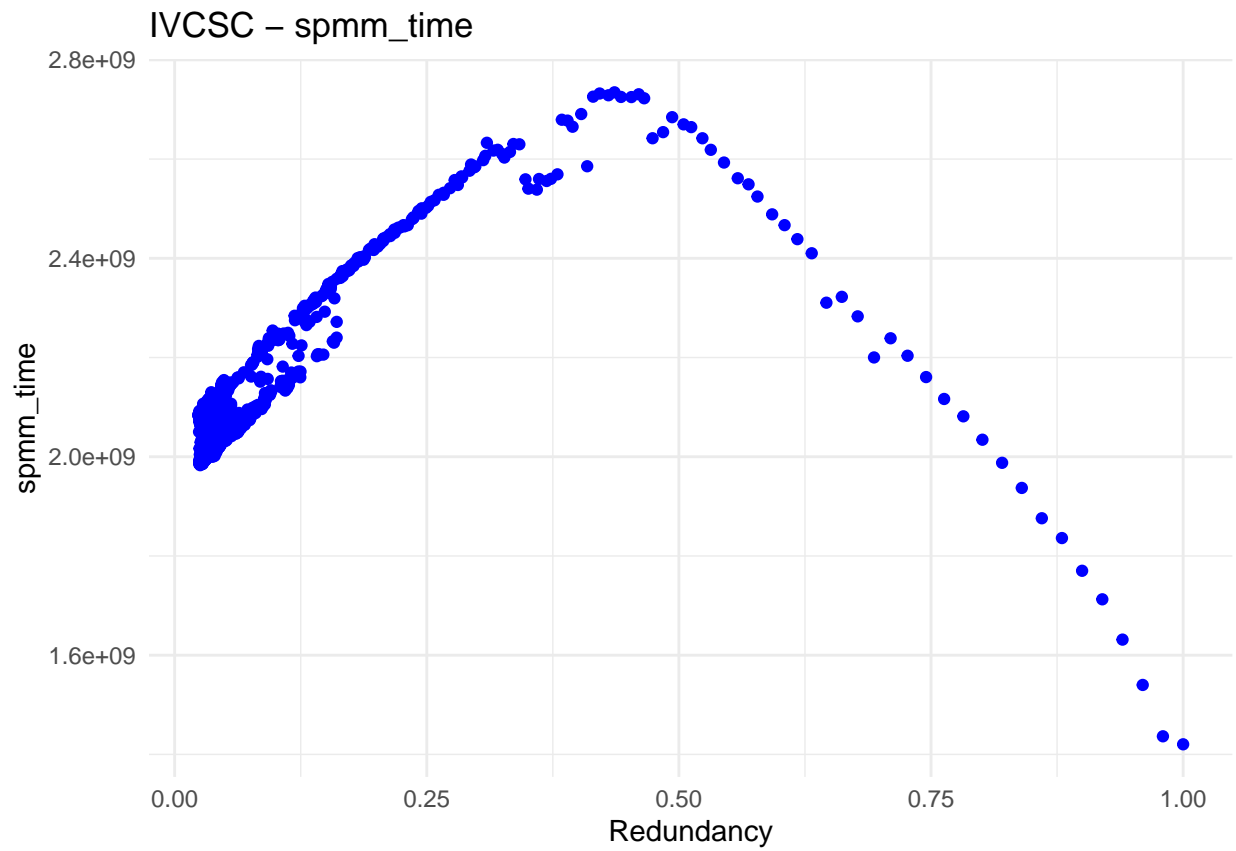




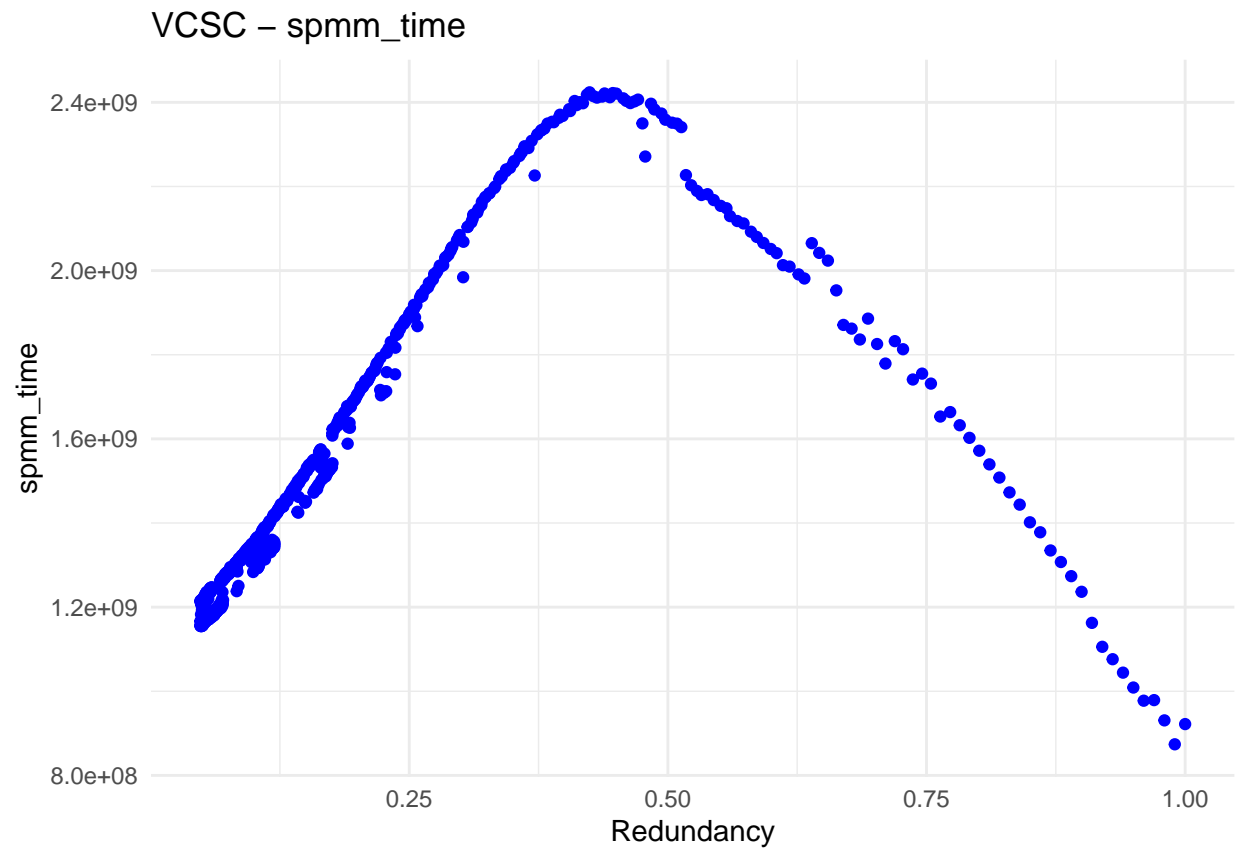


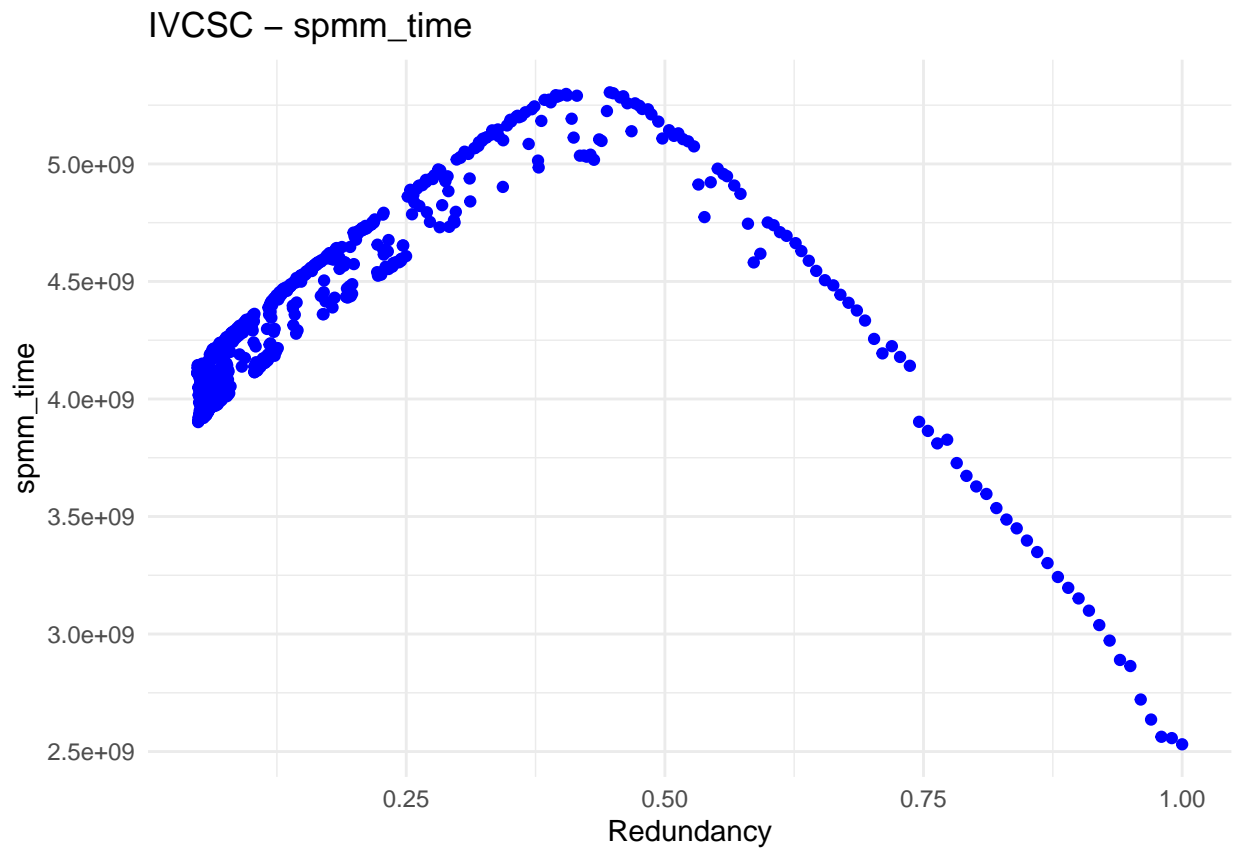


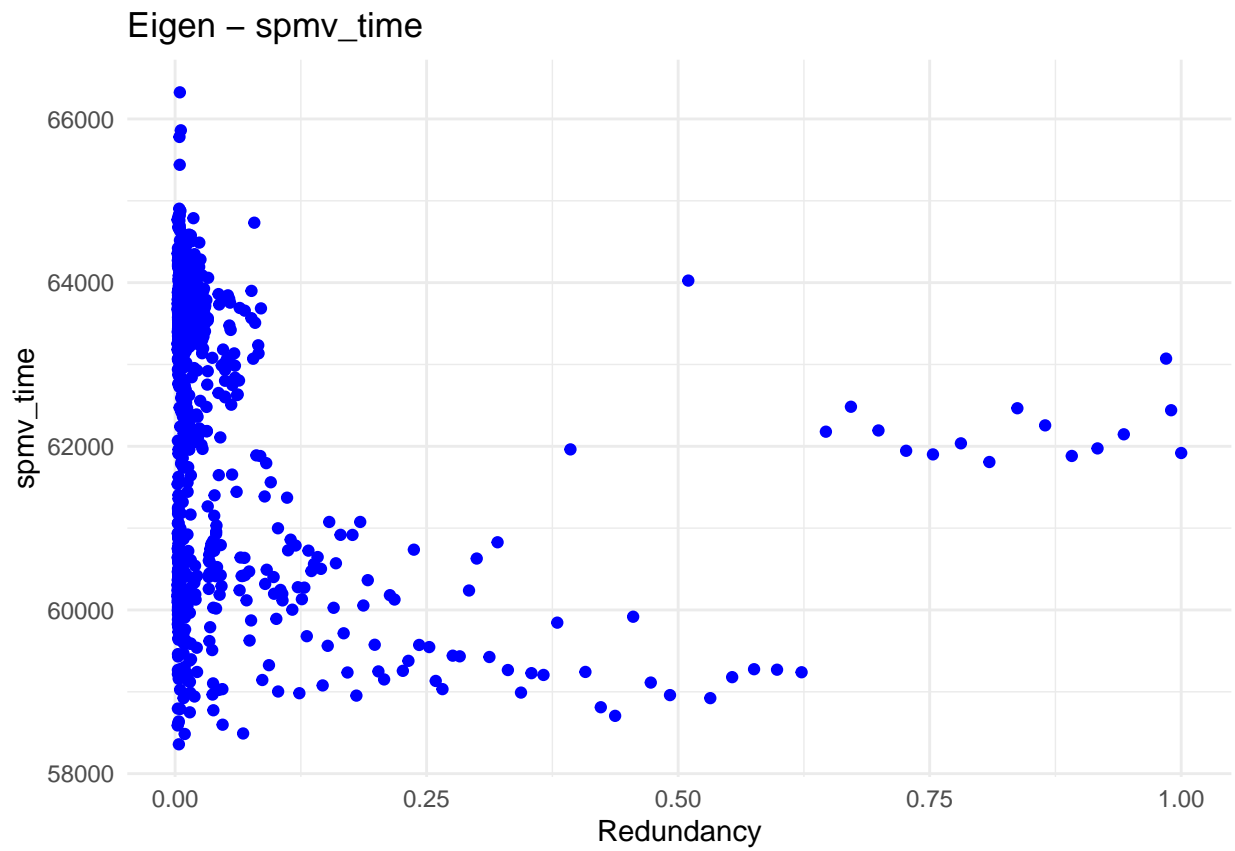


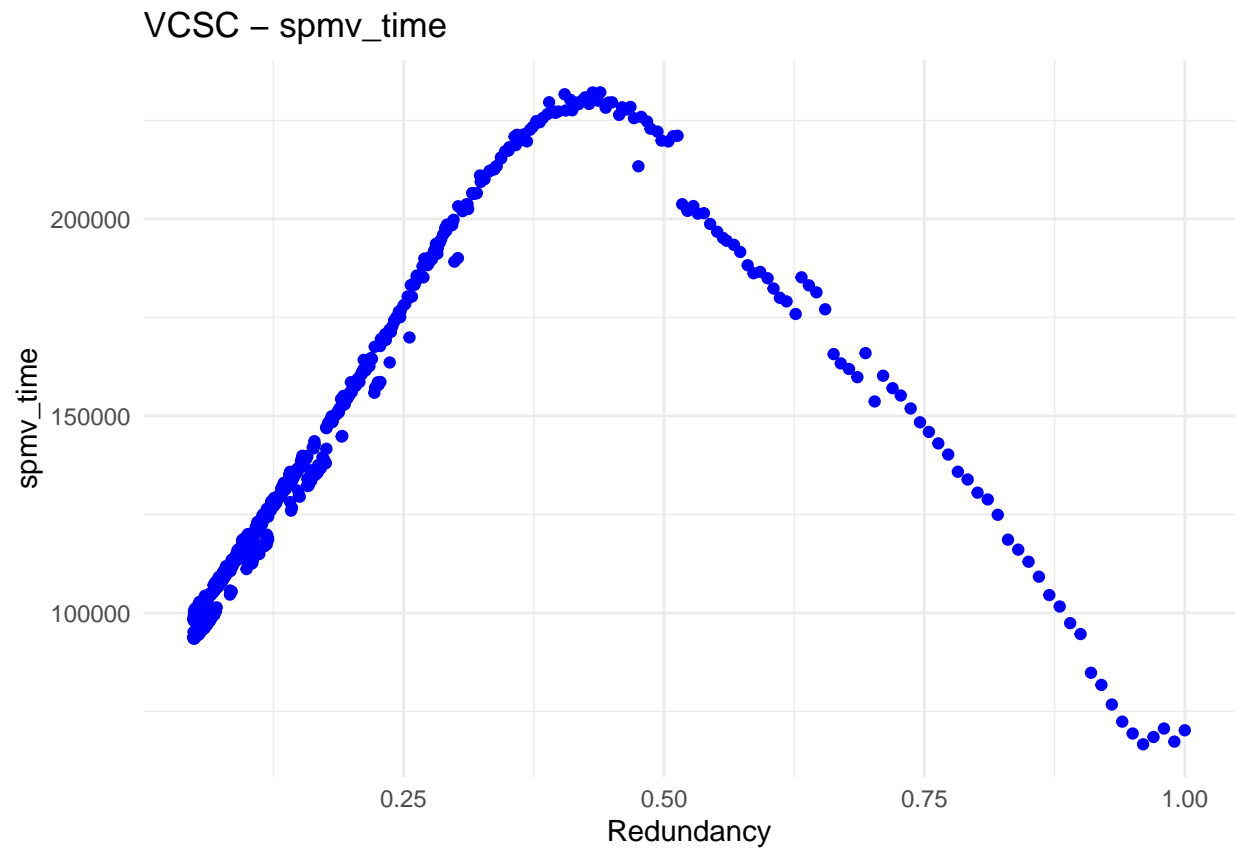


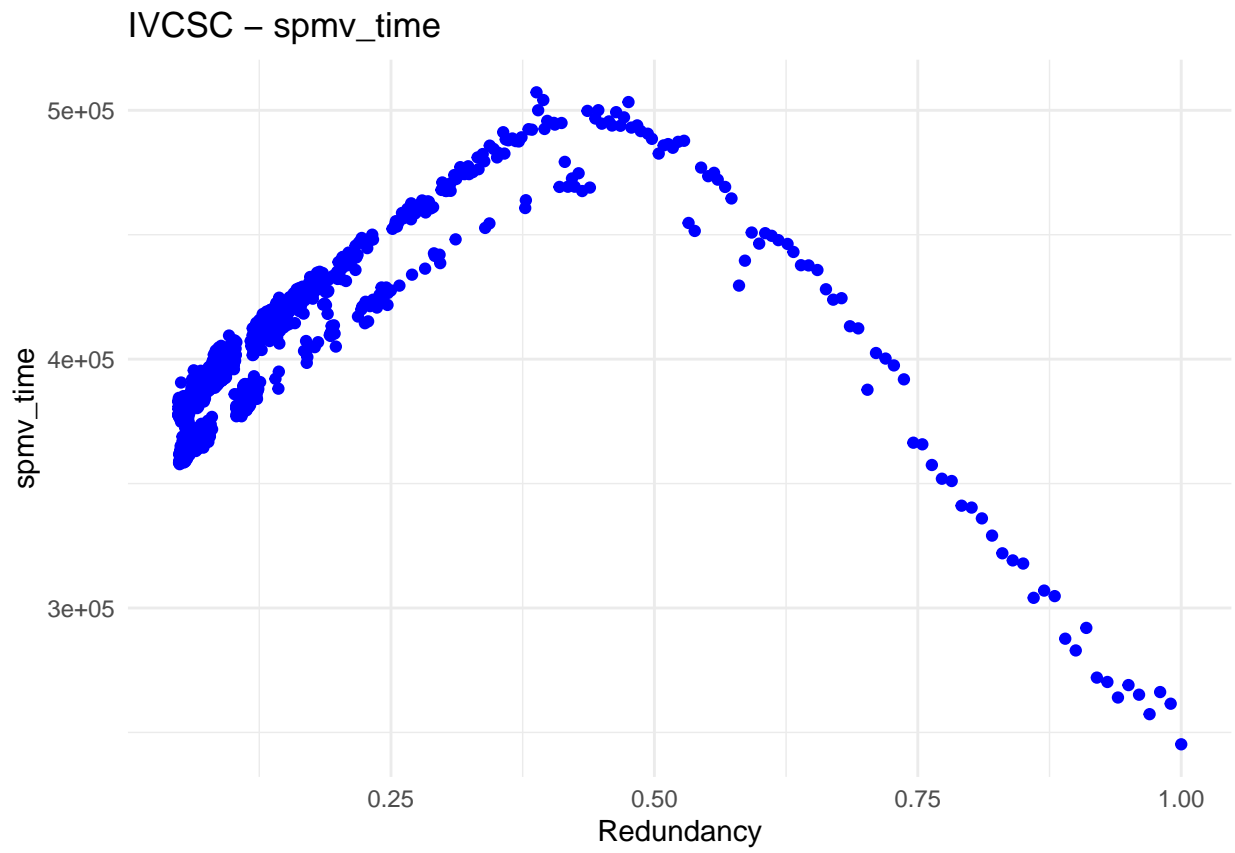
Averages of Data at 10% Density



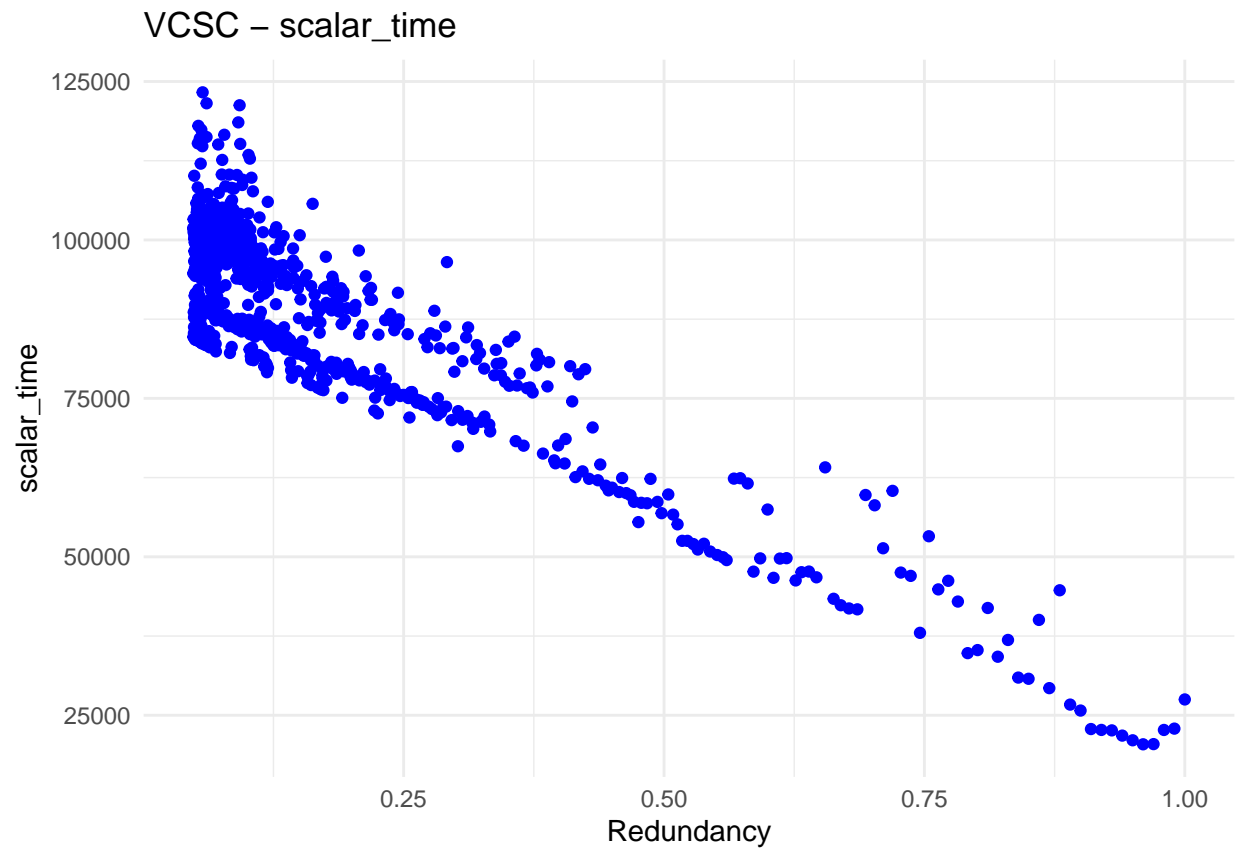


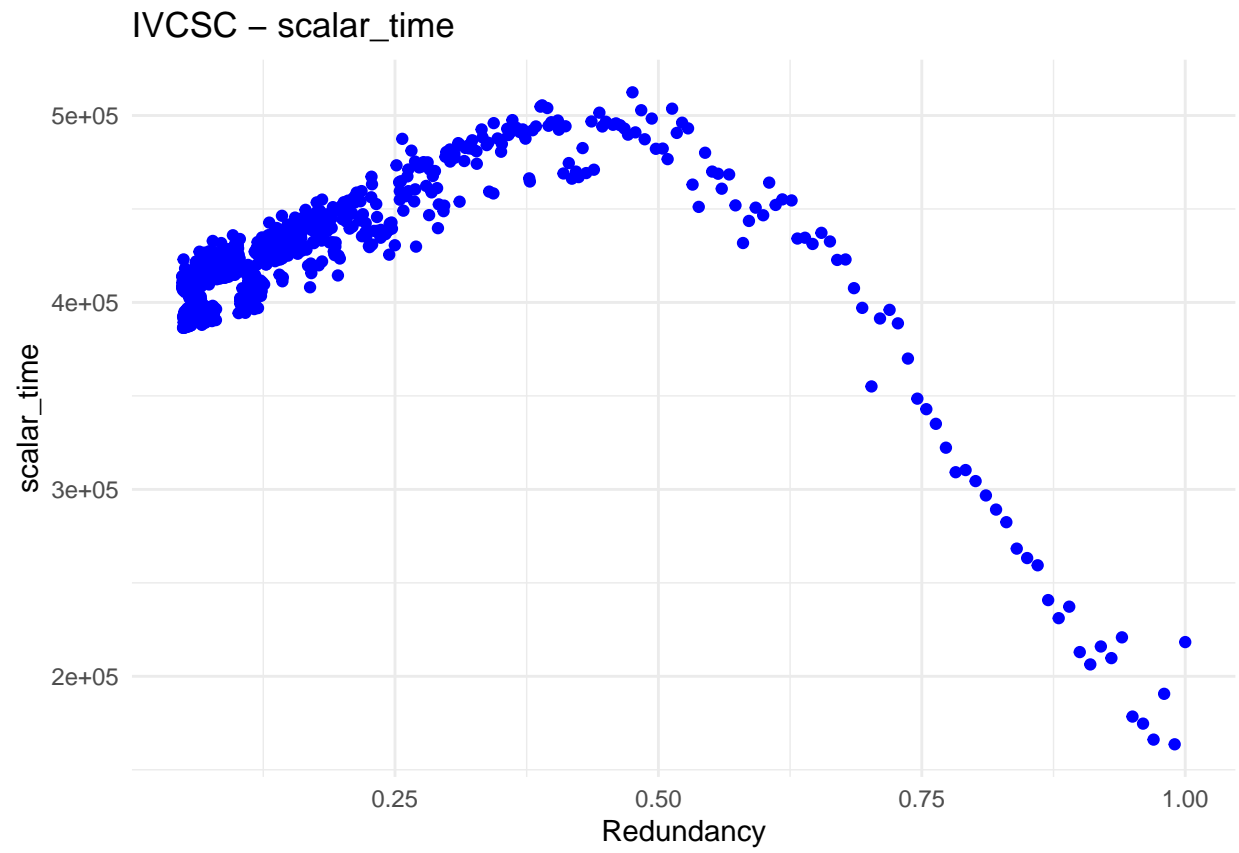


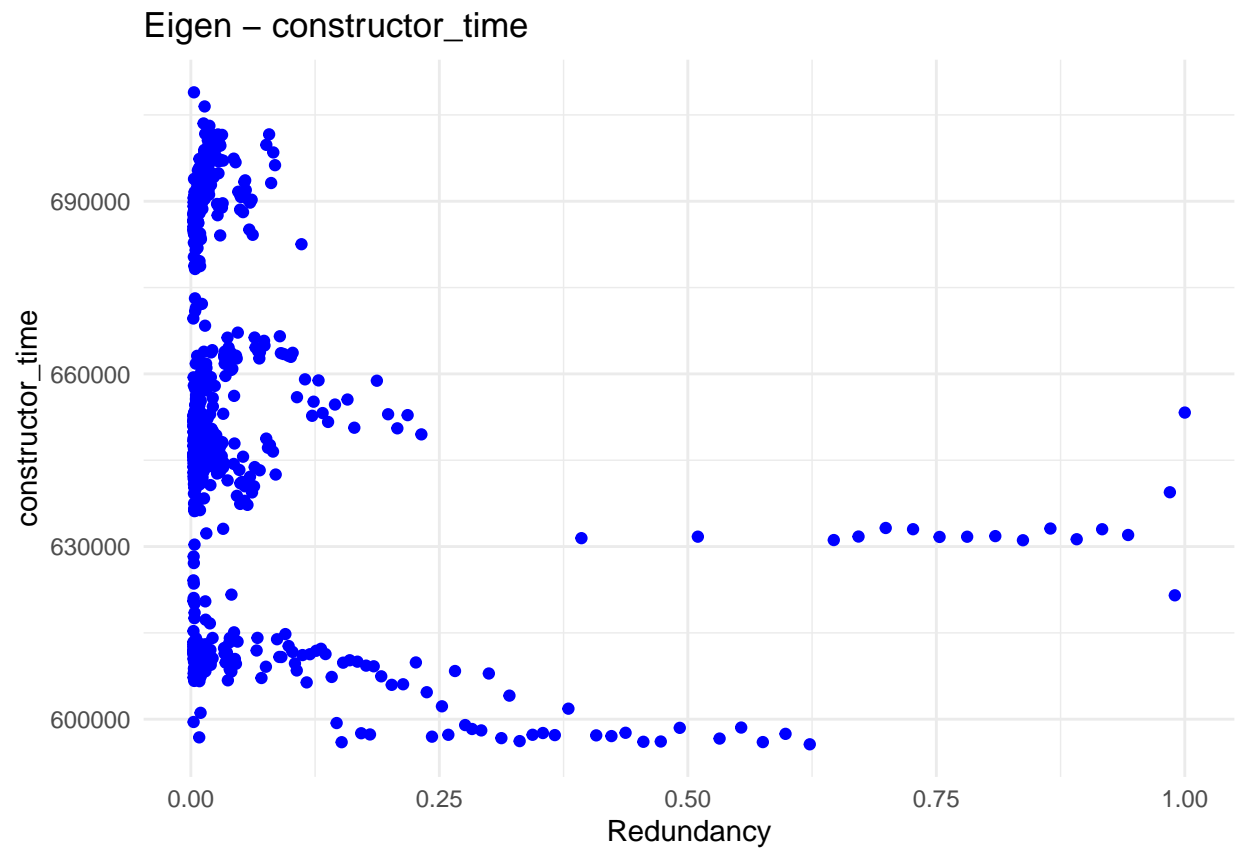


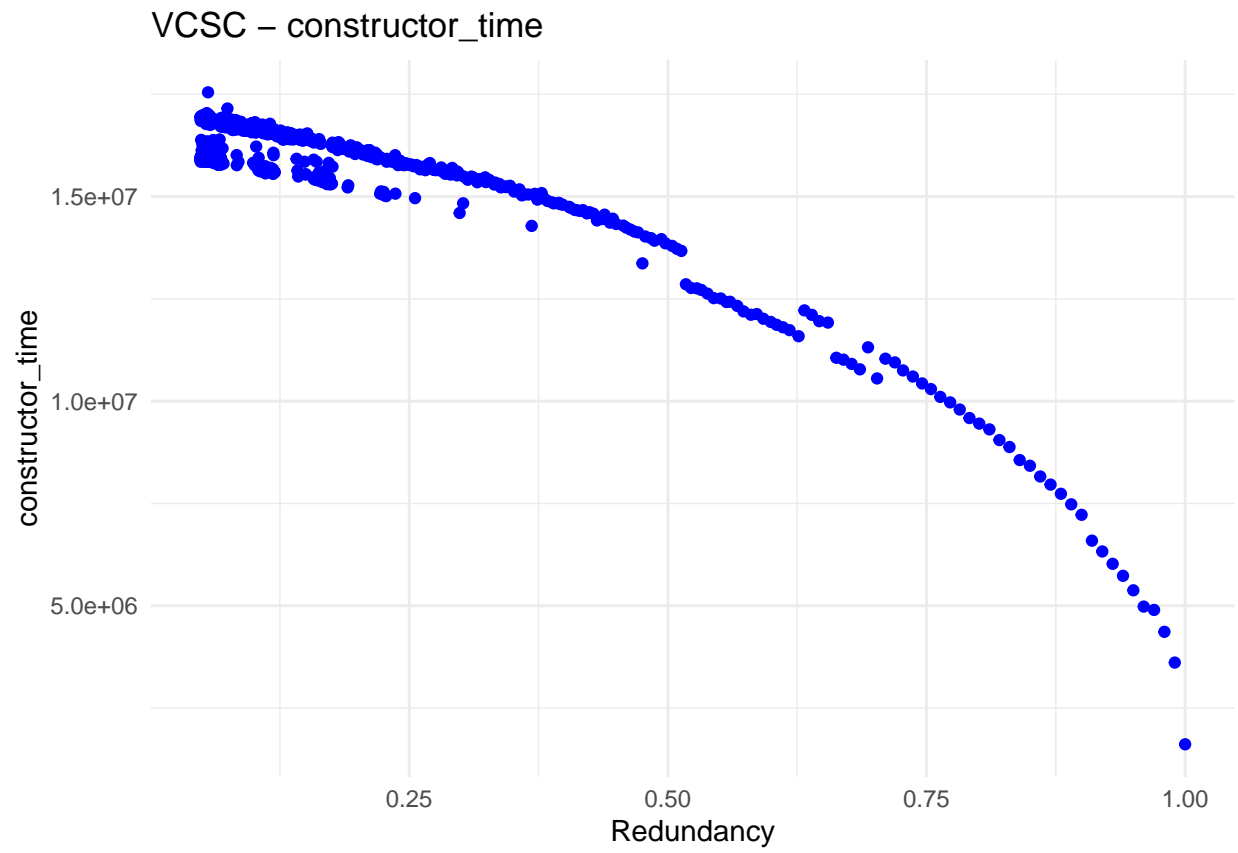


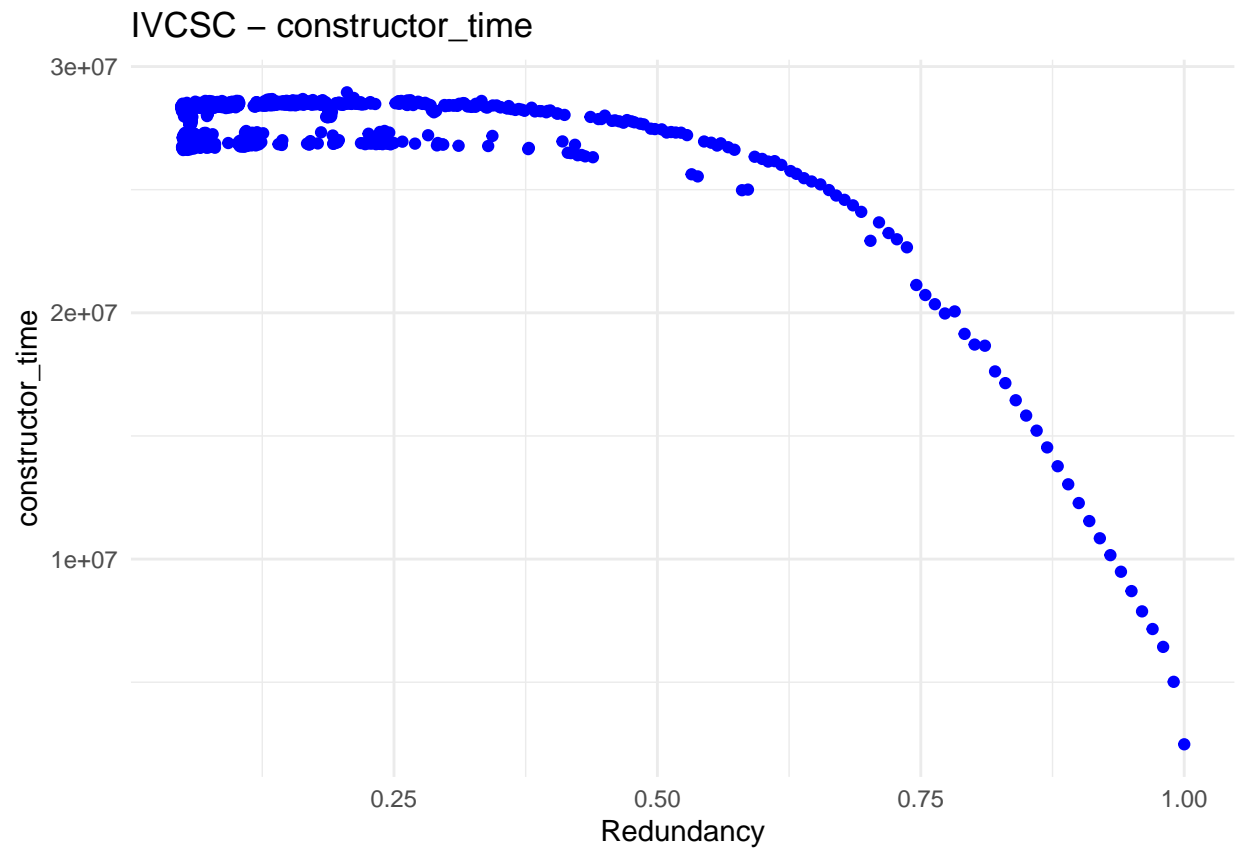
The figure consists of two vertically stacked scatter plots. Both plots have 'Redundancy' on the x-axis, ranging from 0.00 to 1.00. The top plot has an unlabeled y-axis ranging from 0.00 to 1.00. It shows a dense cluster of blue points at low redundancy (near 0.00) and low values (near 0.00). There are also several points at high redundancy (near 1.00) and high values (near 1.00). The bottom plot has an unlabeled y-axis ranging from 0.00 to 1.00. It shows a dense cluster of blue points at low redundancy (near 0.00) and low values (near 0.00). There are also several points at high redundancy (near 1.00) and low values (near 0.00).

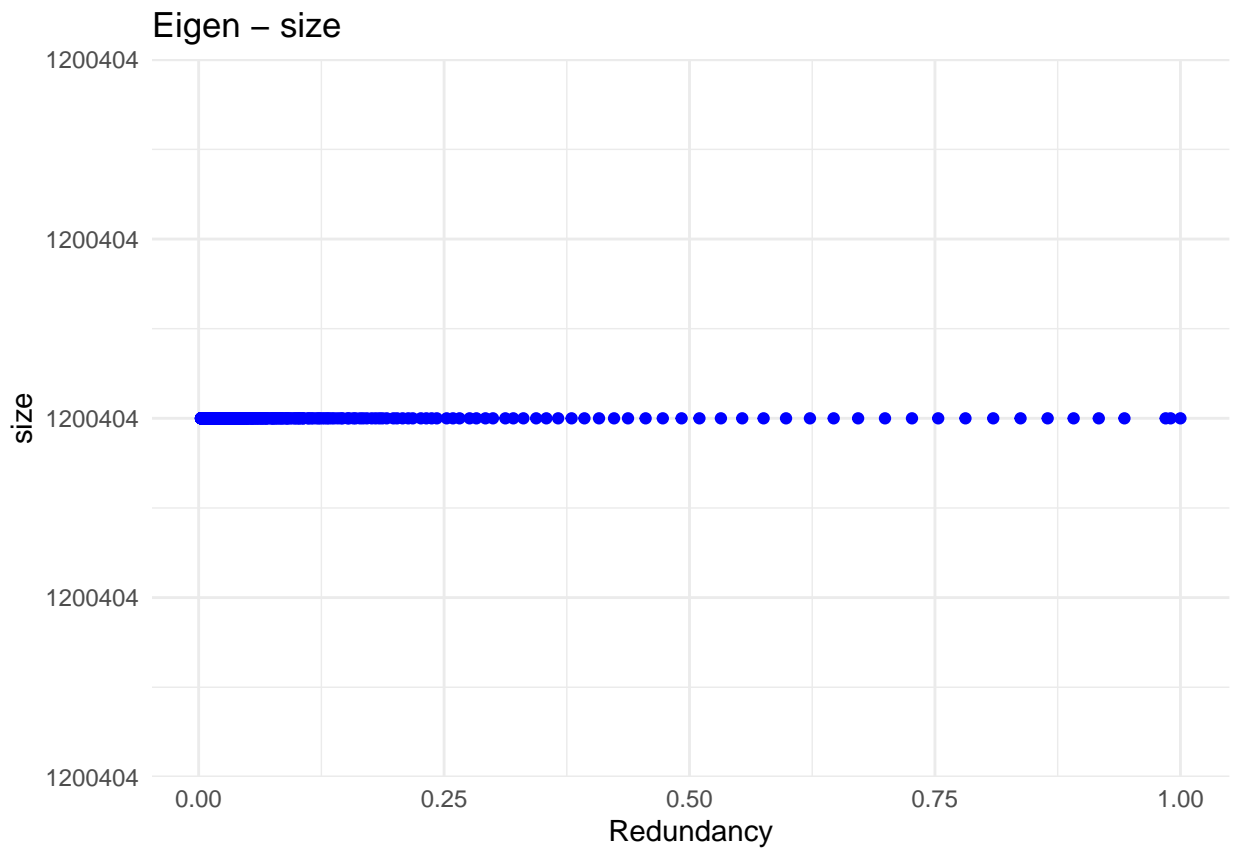


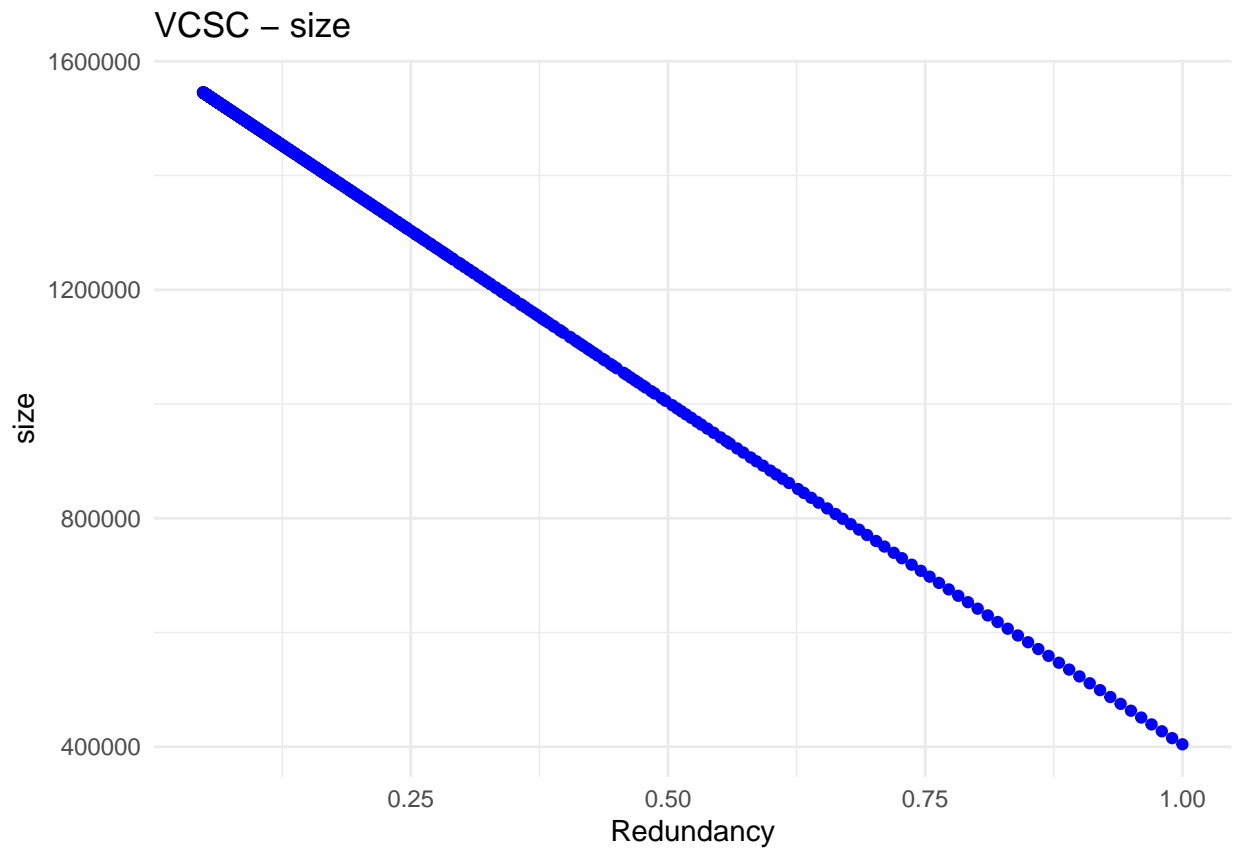


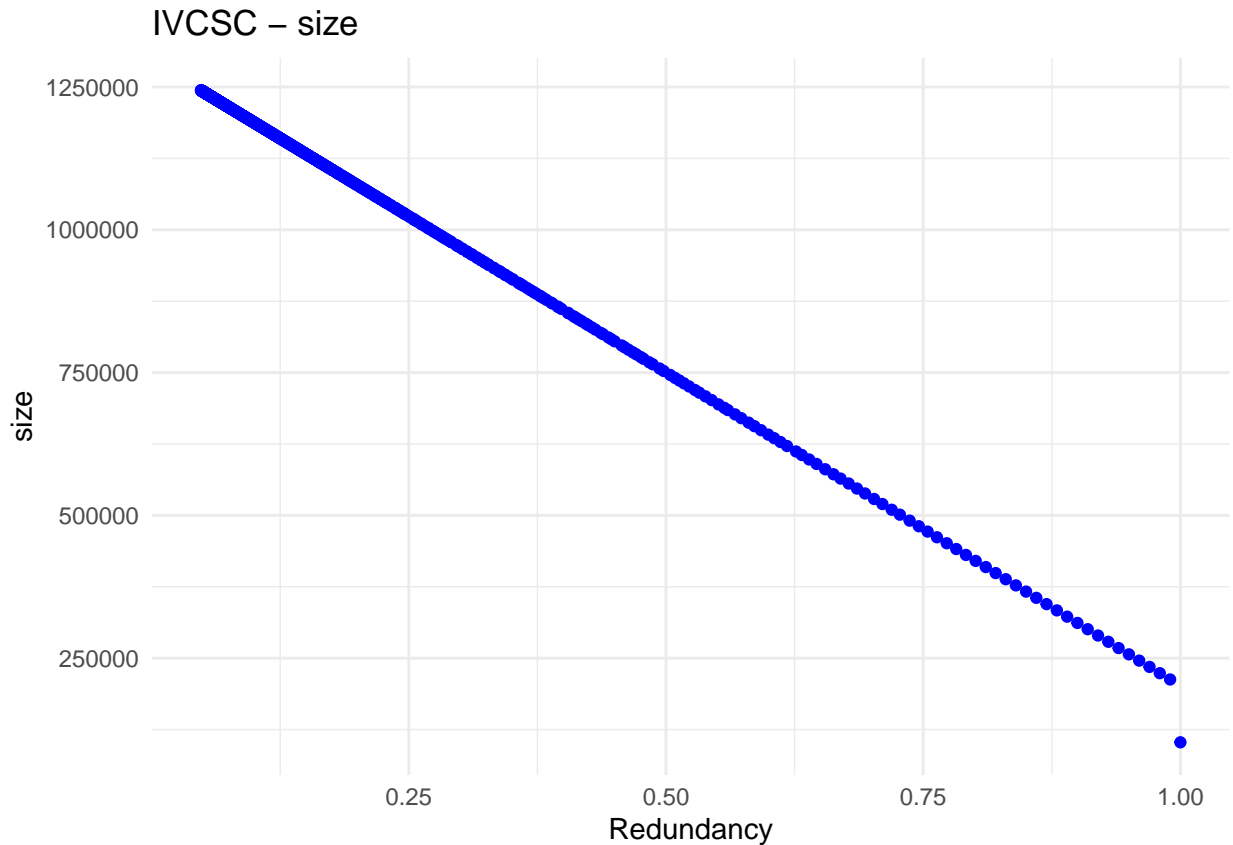






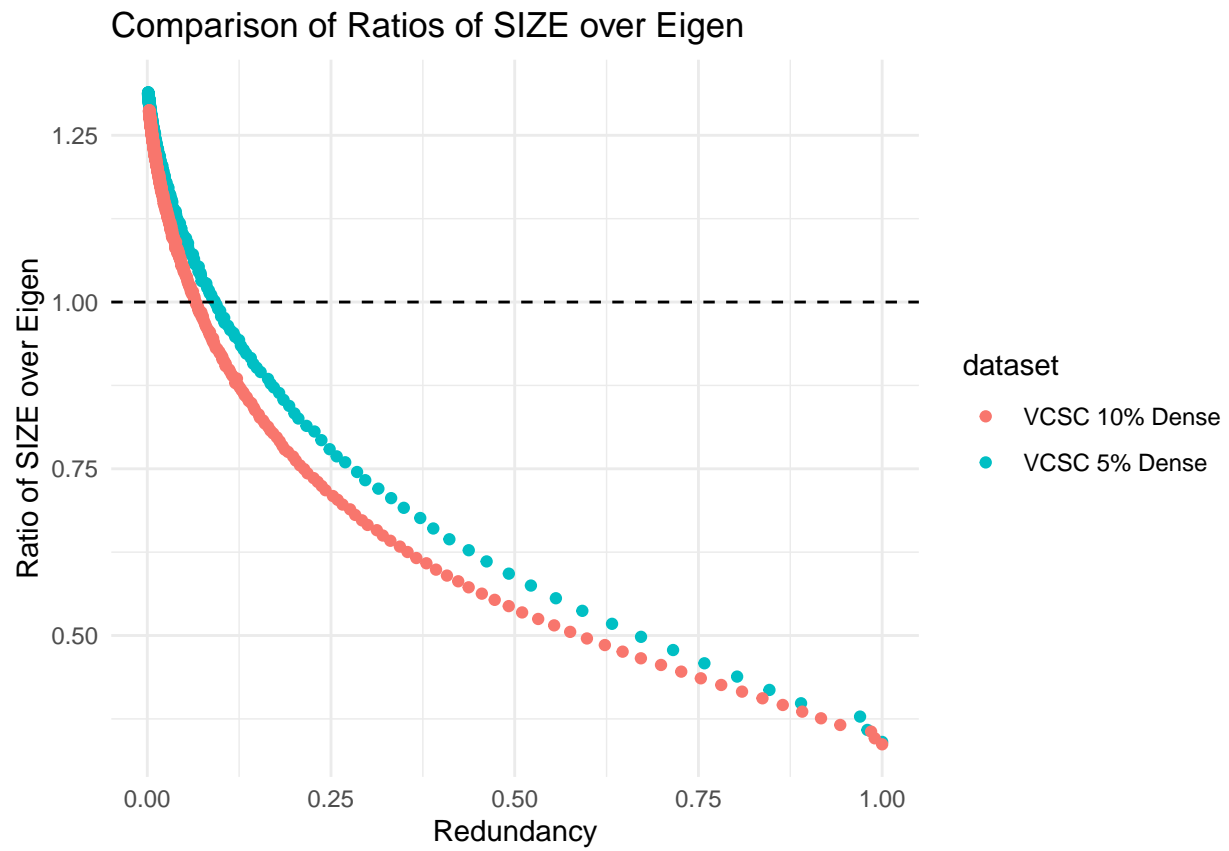


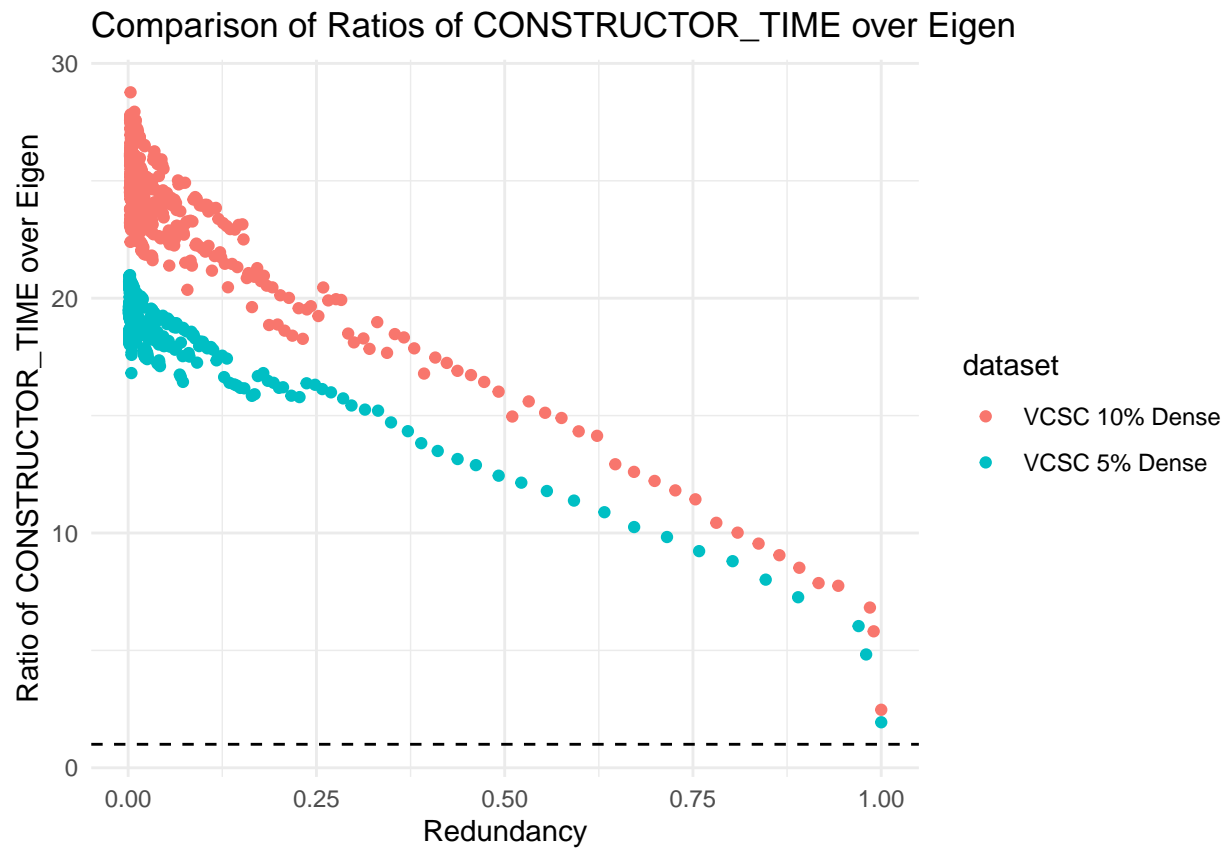


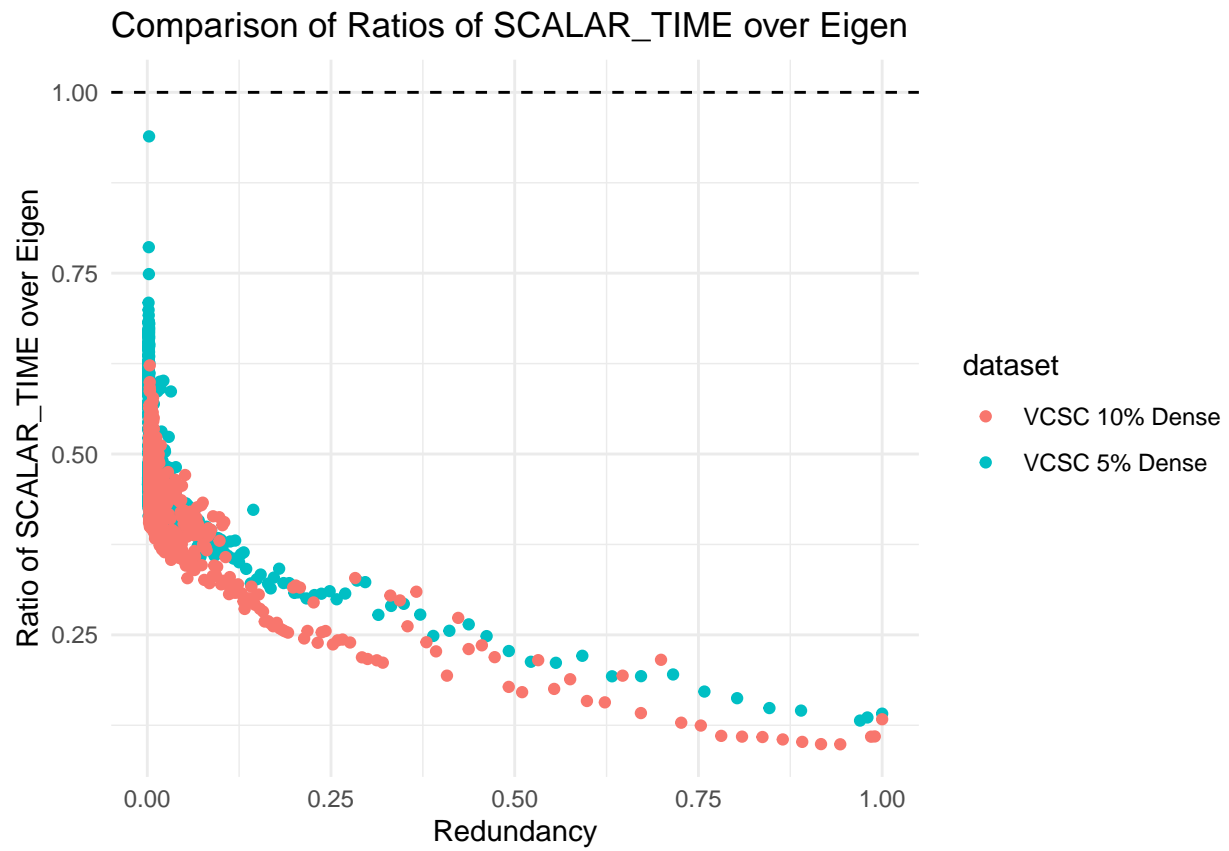


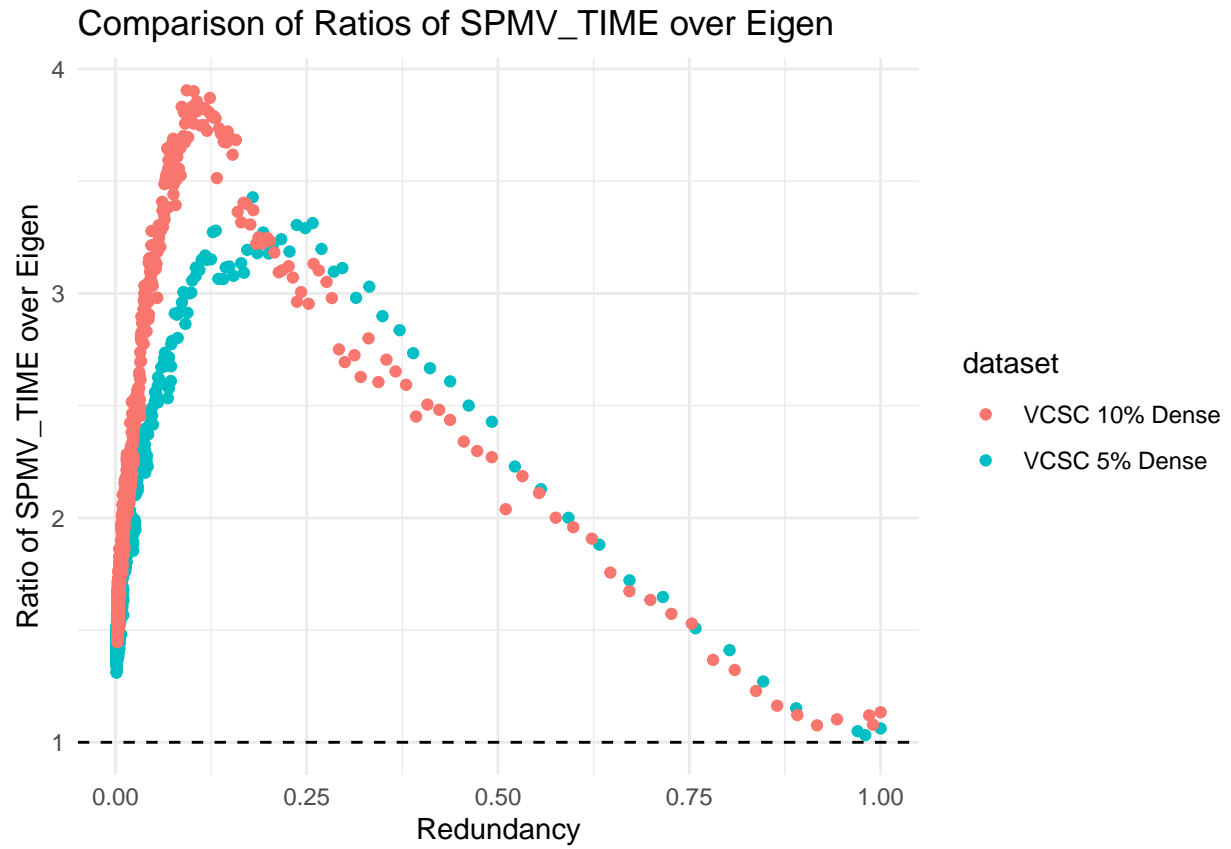
Dual Plots Between 5% and 10% Density as a Ratio Over Eigen

```
## Warning: Using an external vector in selections was deprecated in tidyselect 1.1.0.
## i Please use `all_of()` or `any_of()` instead.
##   # Was:
##   data %>% select(y_axis_variable)
##
##   # Now:
##   data %>% select(all_of(y_axis_variable))
##
## See <https://tidyselect.r-lib.org/reference/faq-external-vector.html>.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

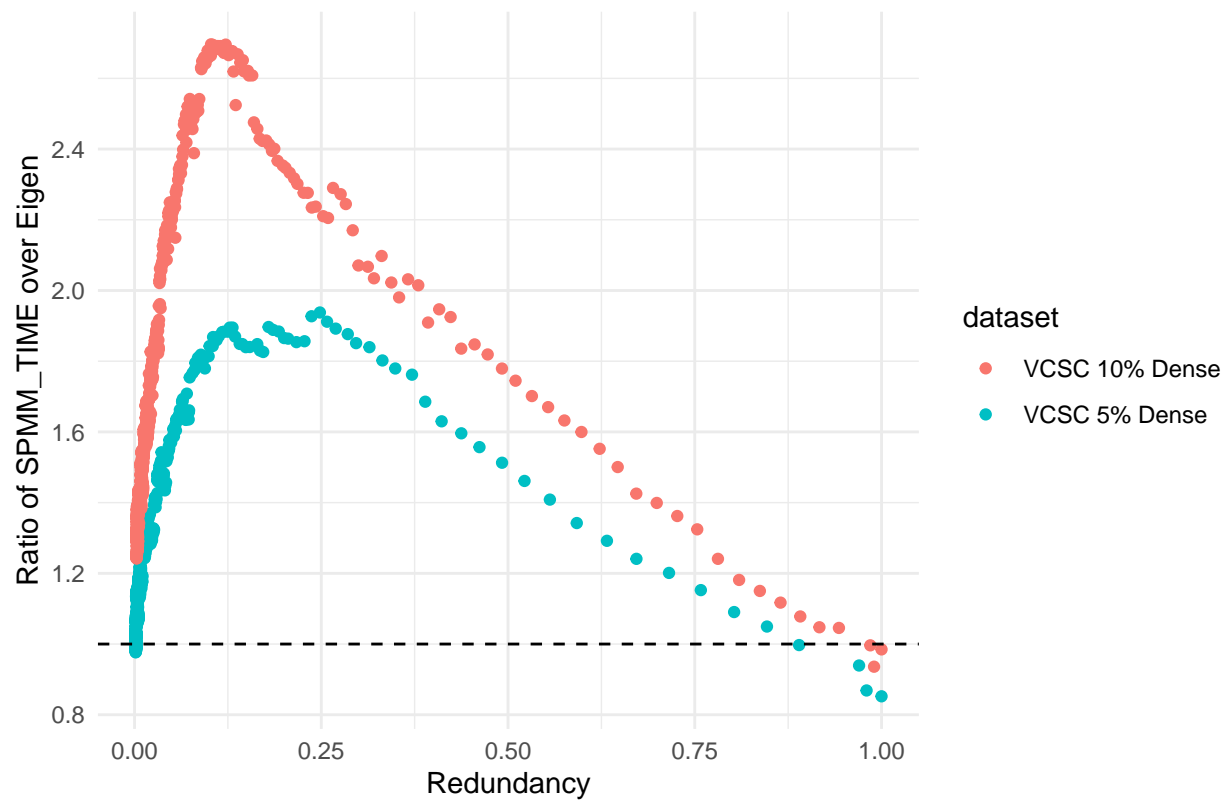


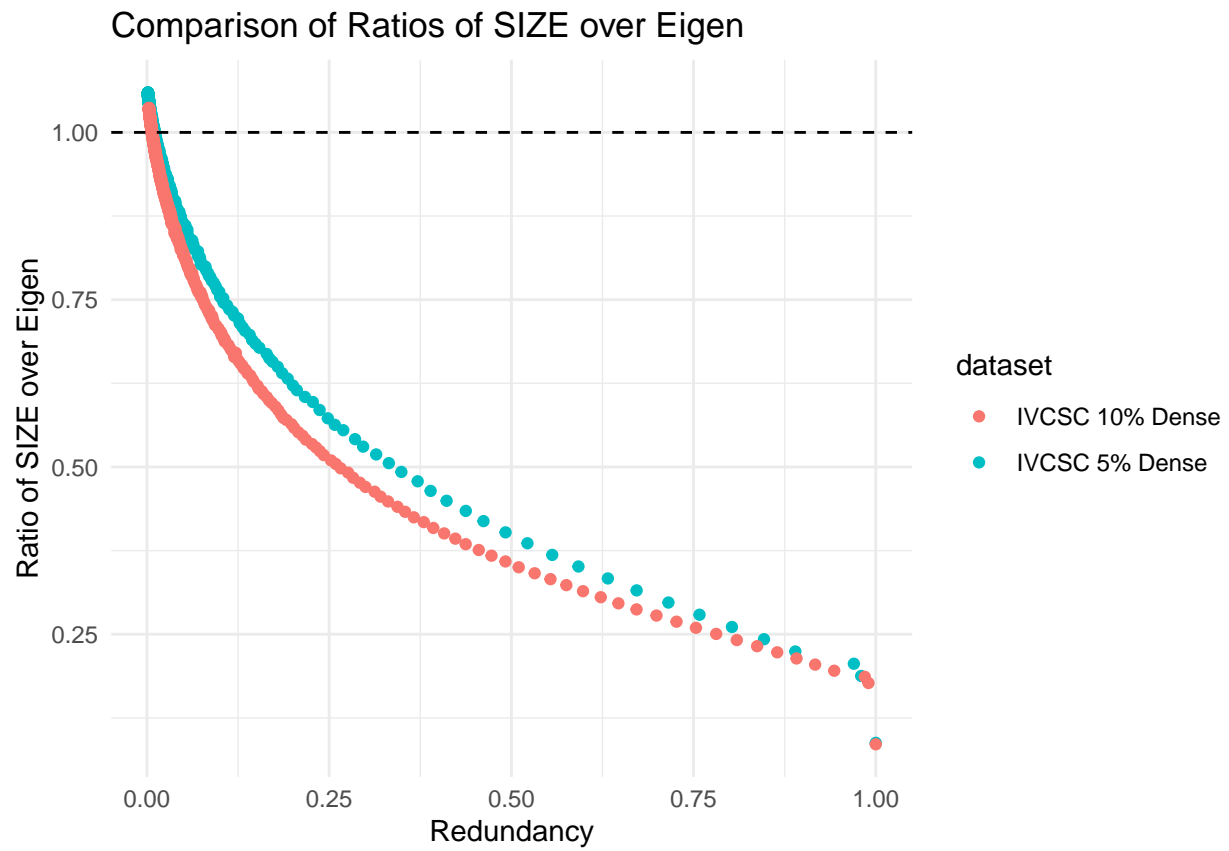


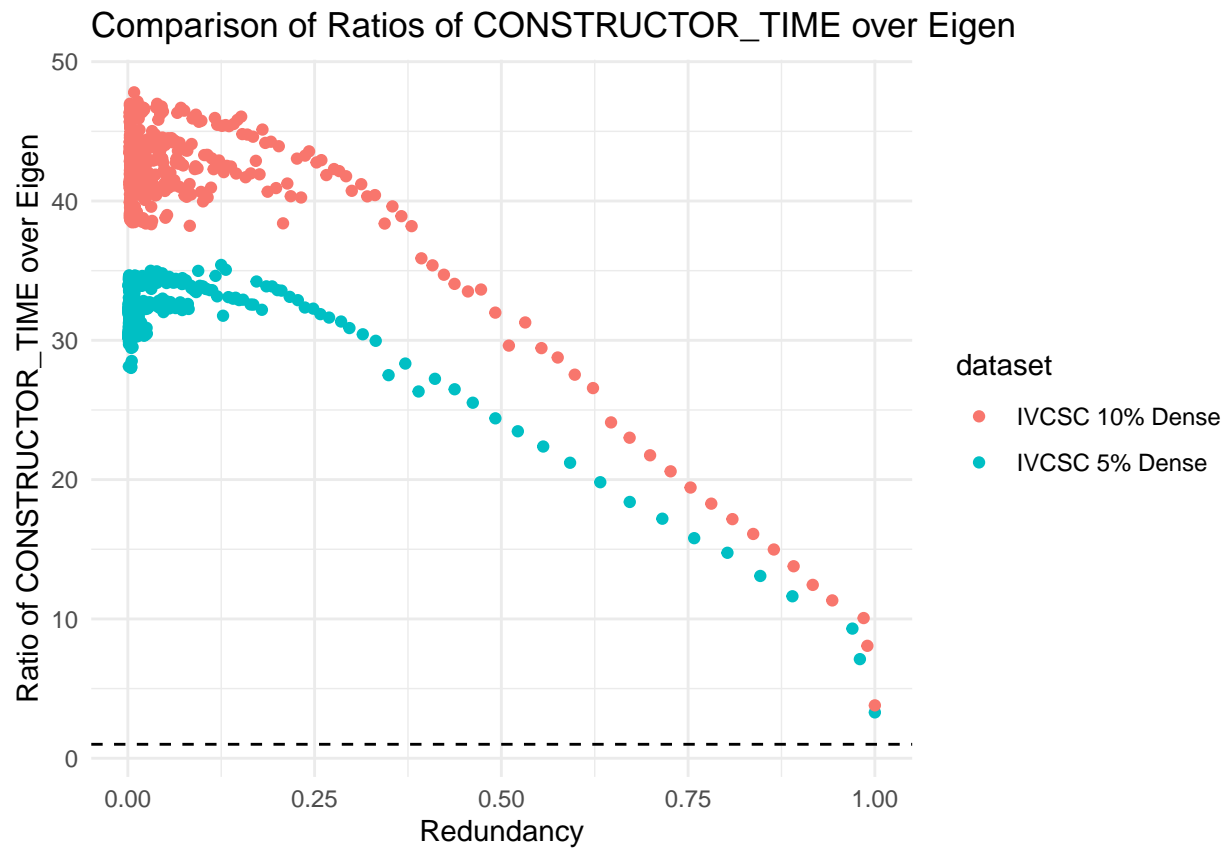




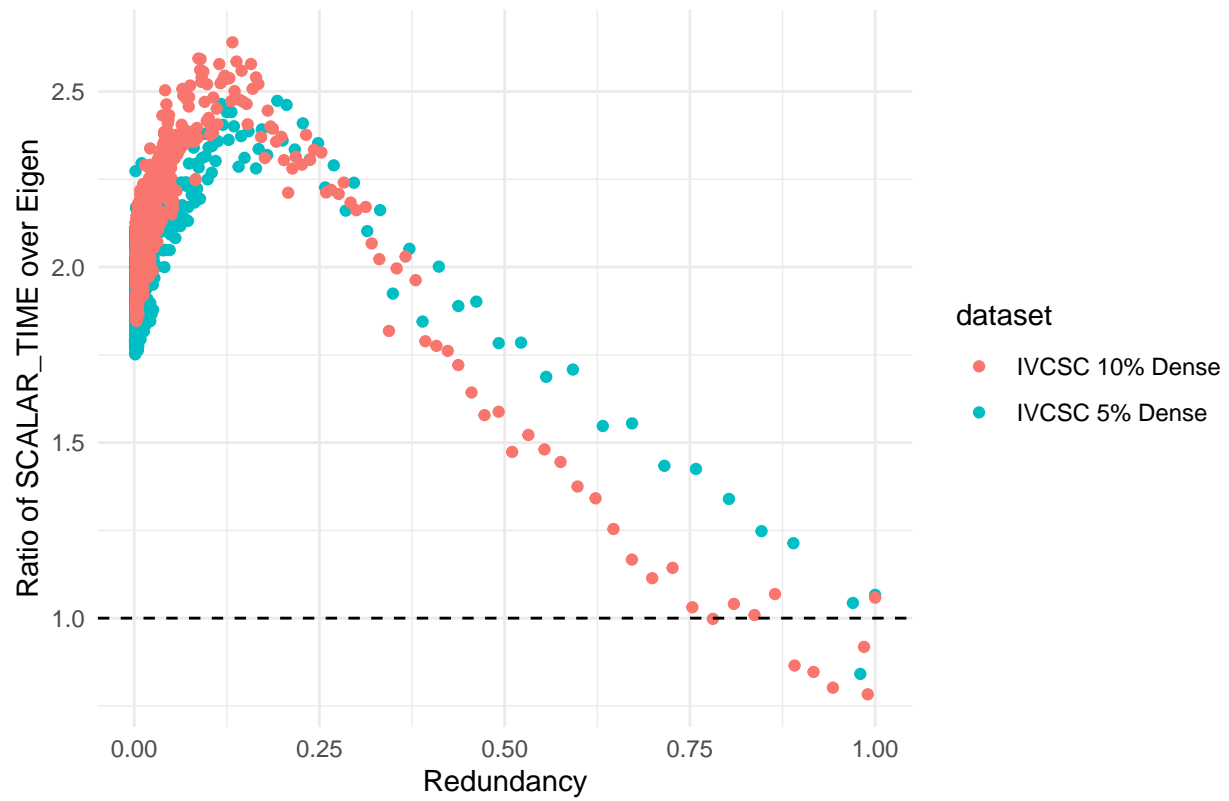
Comparison of Ratios of SPMM_TIME over Eigen

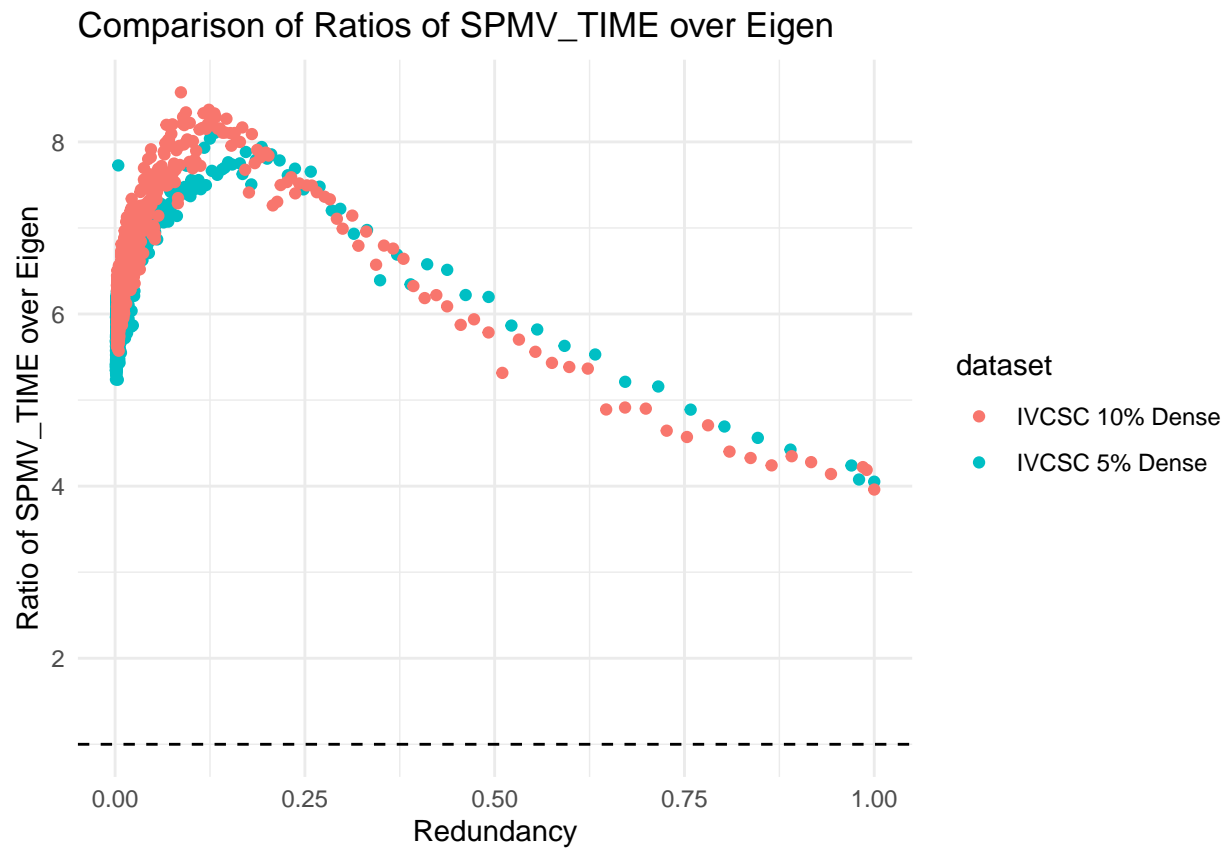


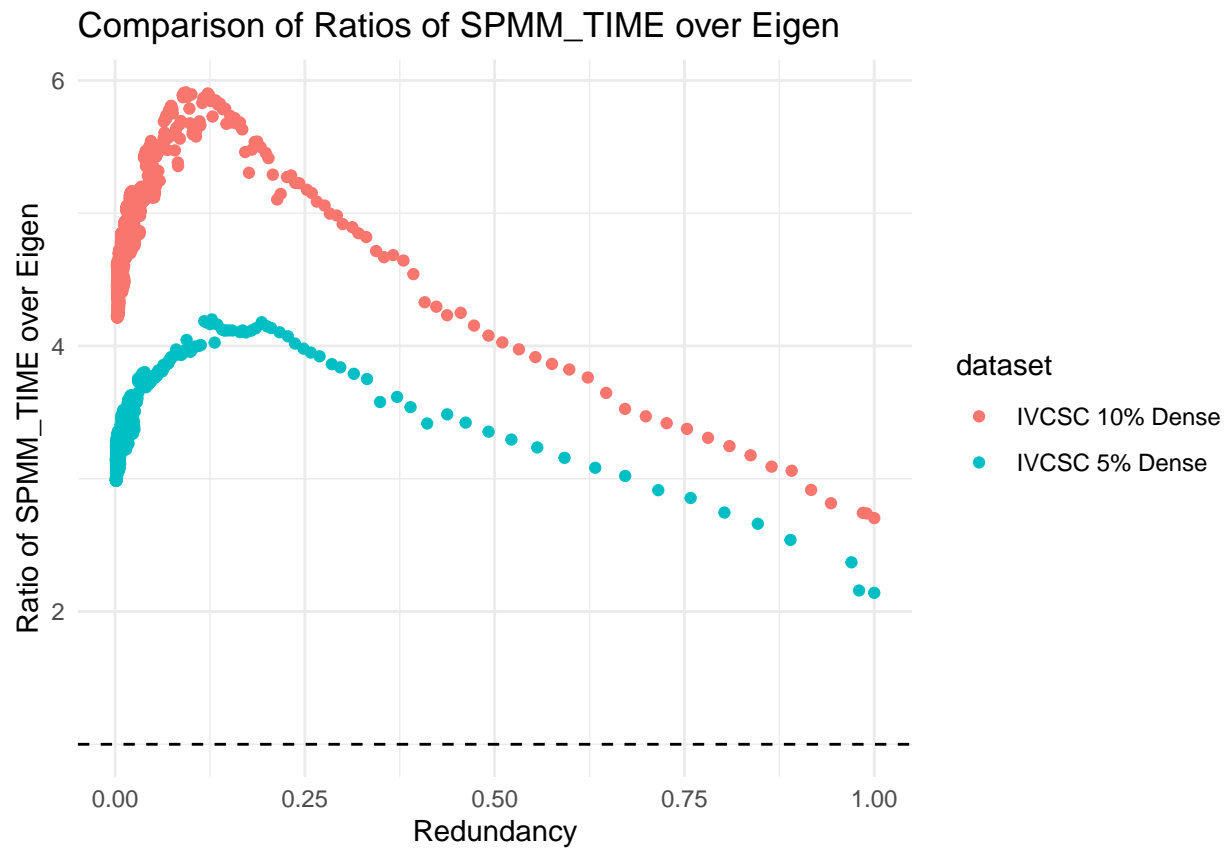




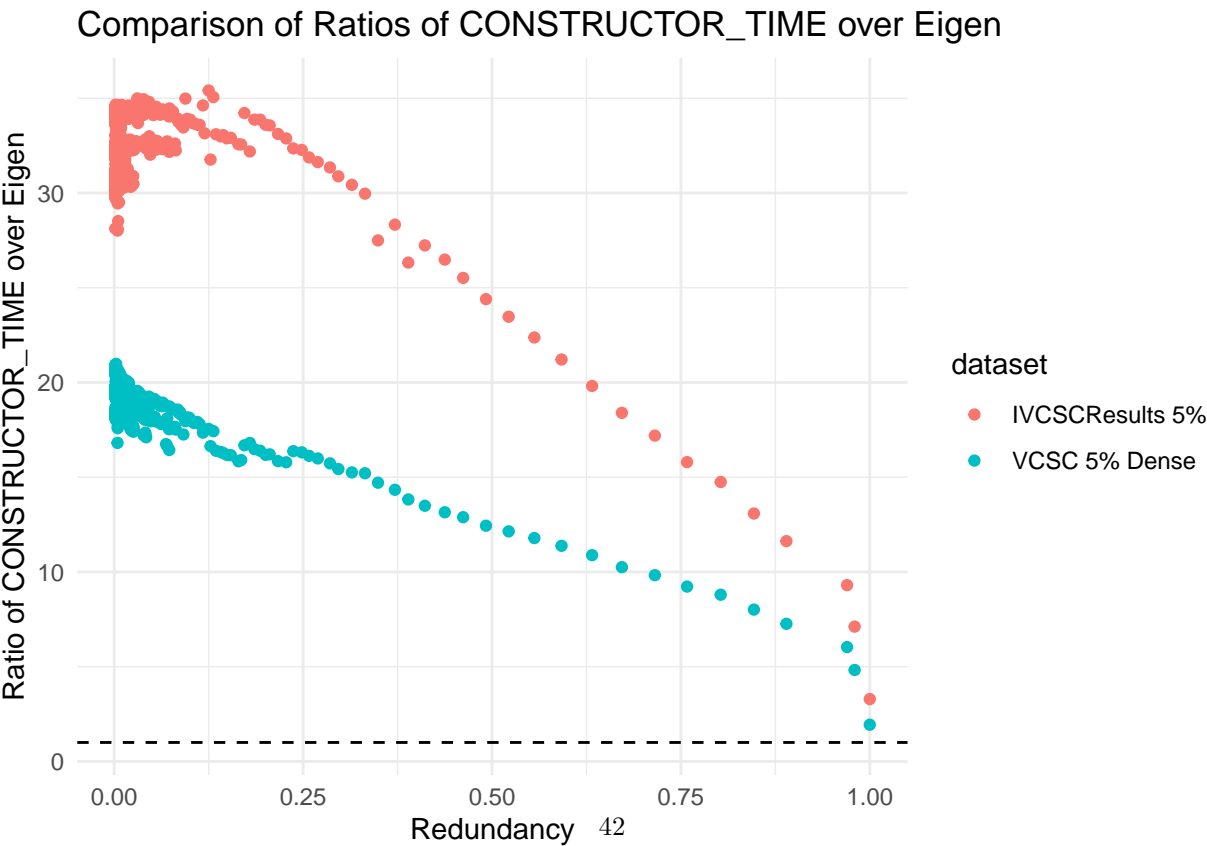
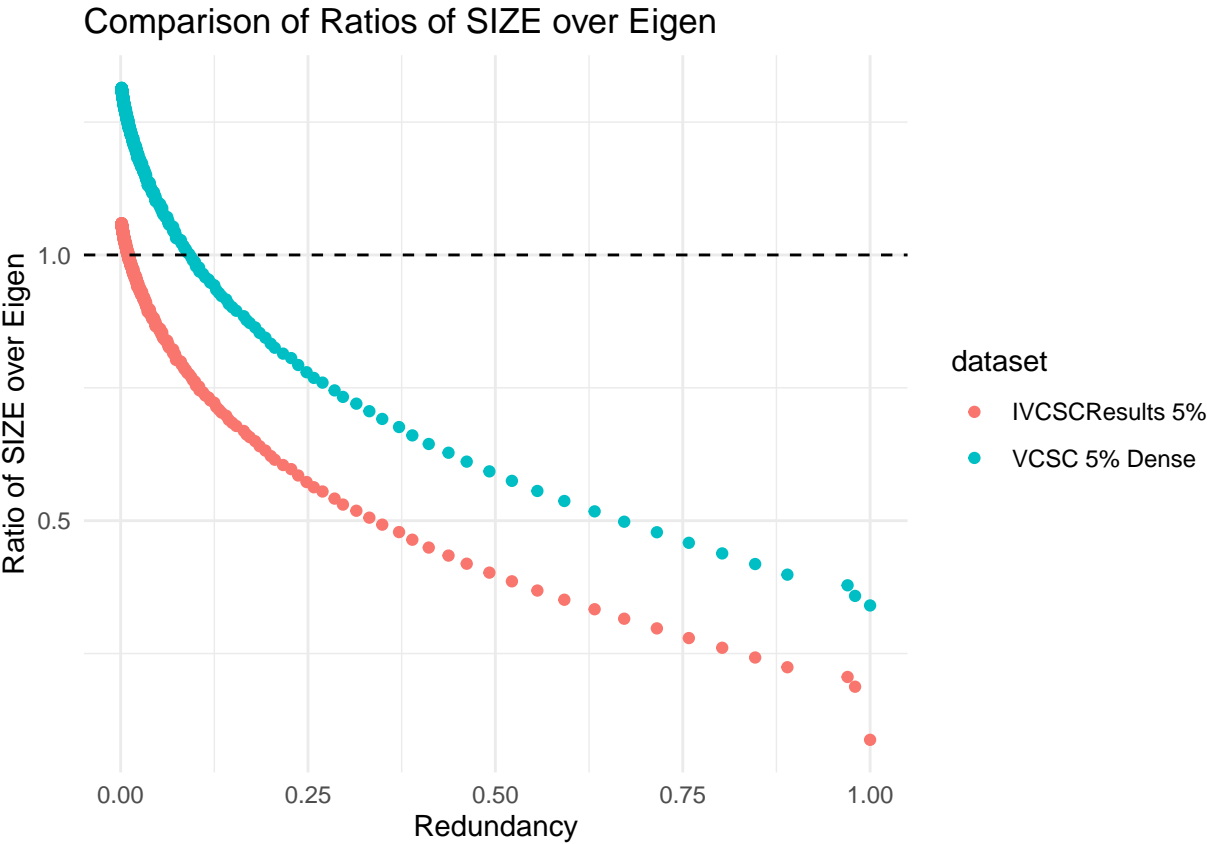
Comparison of Ratios of SCALAR_TIME over Eigen



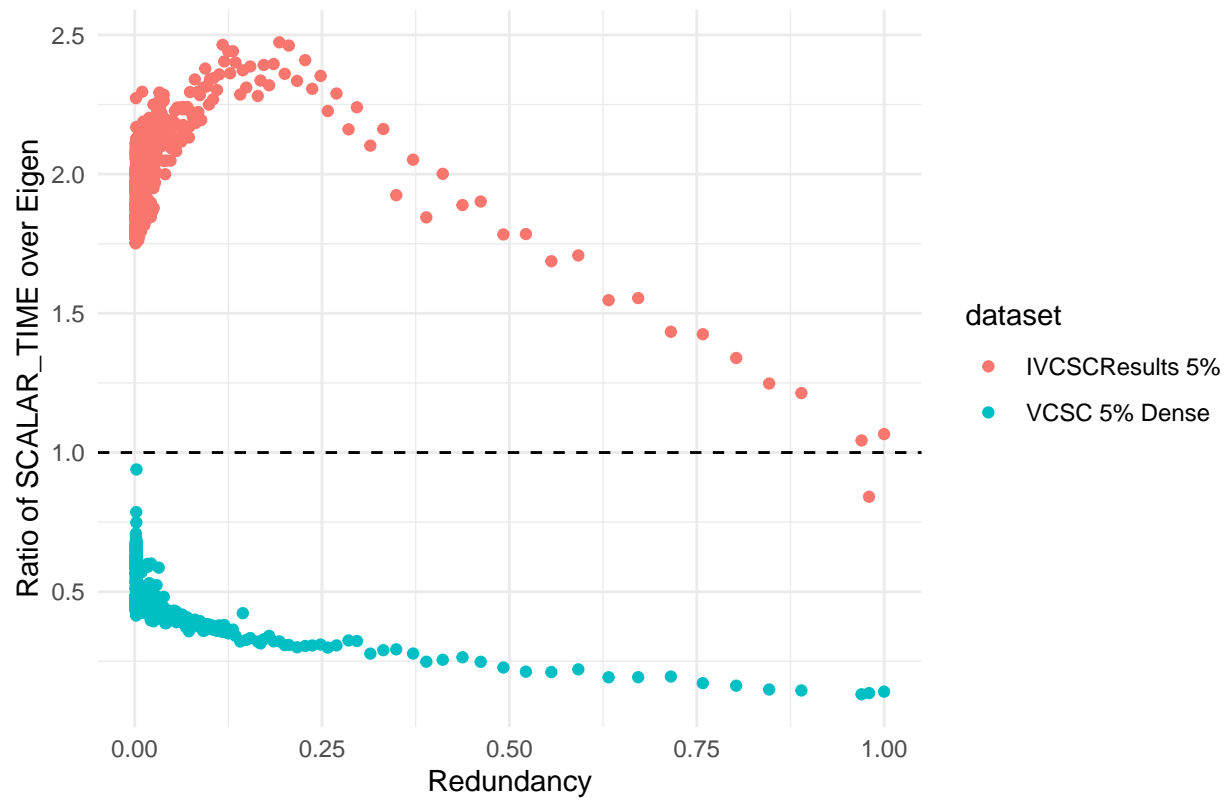


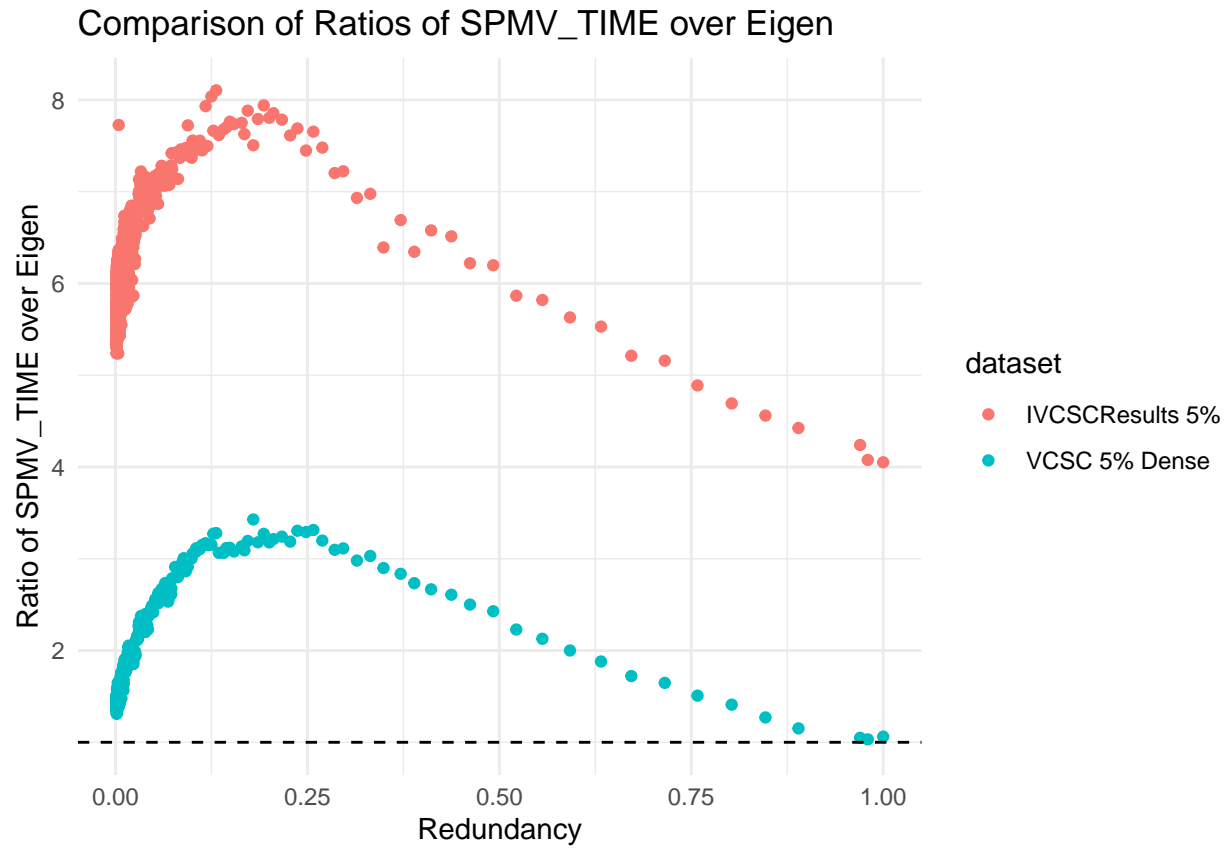


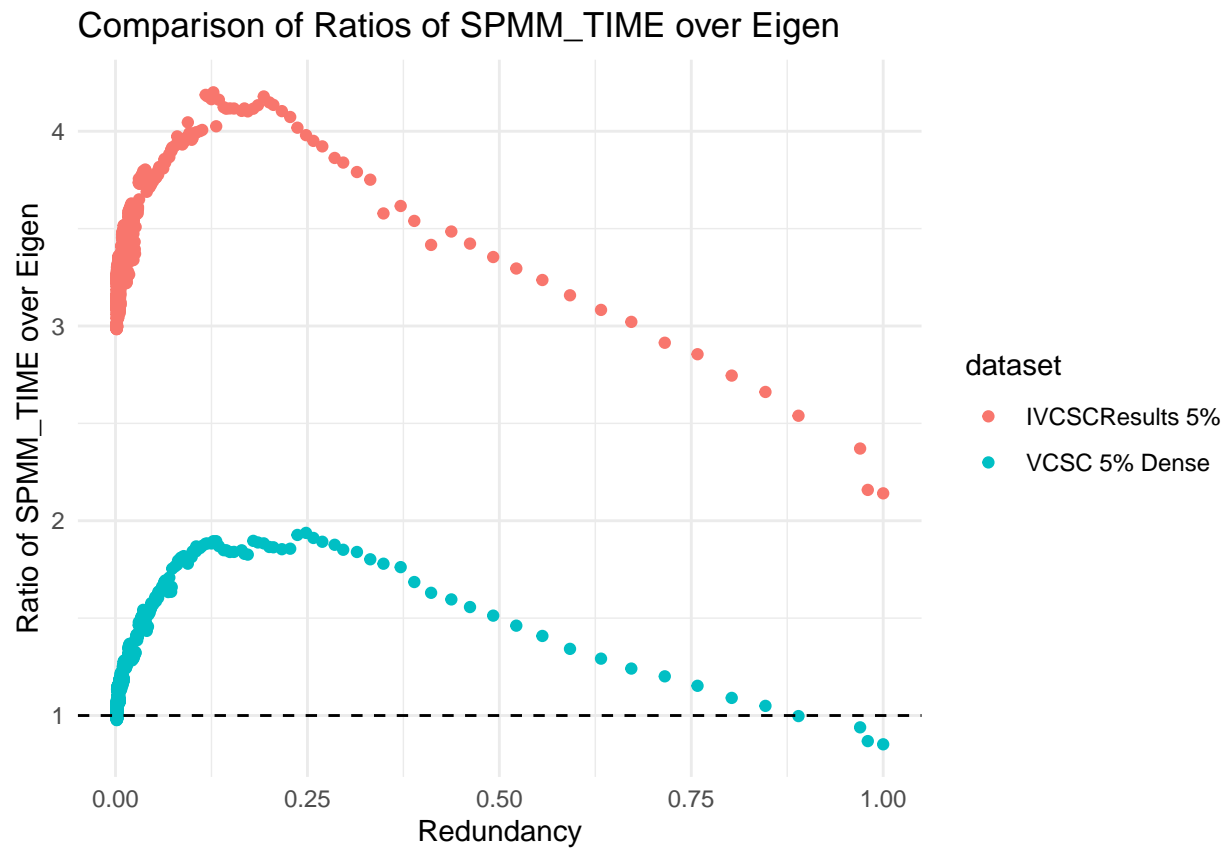
Comparisons of IVCSC and VCSC Density as a Ratio Over Eigen
5% Dense



Comparison of Ratios of SCALAR_TIME over Eigen

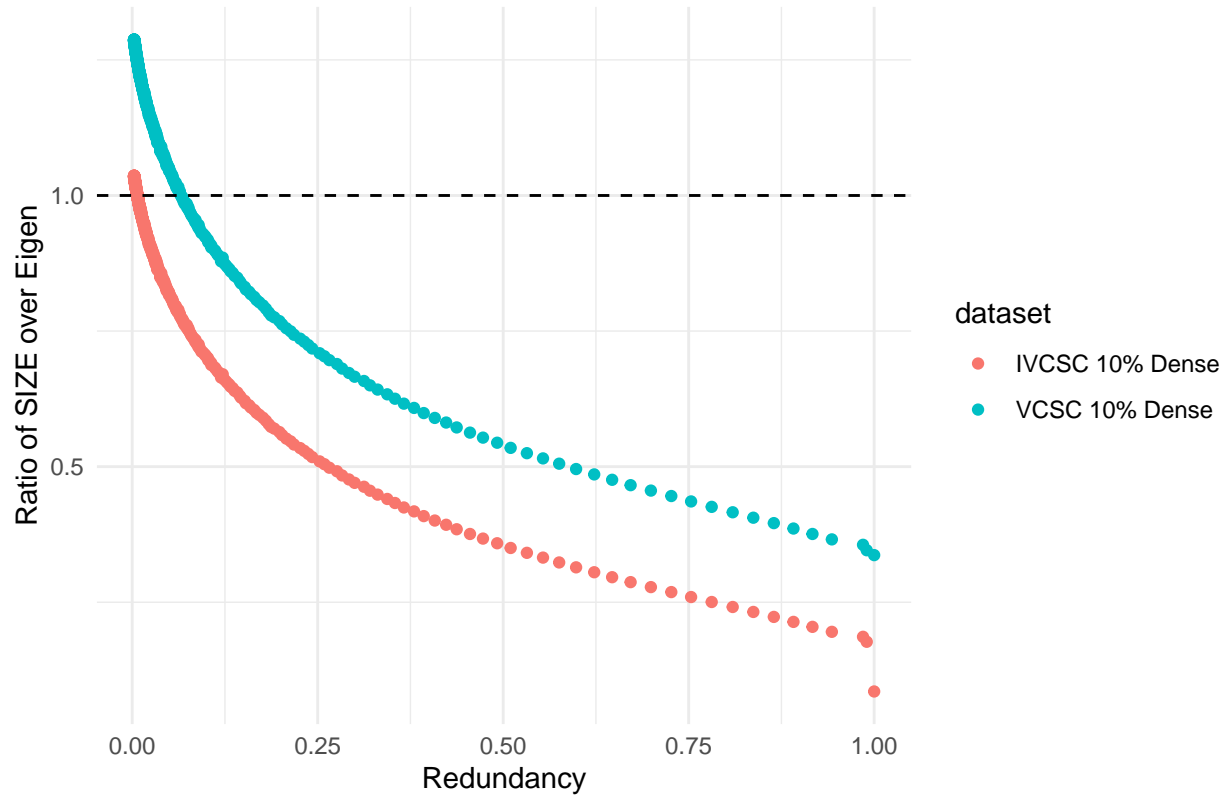




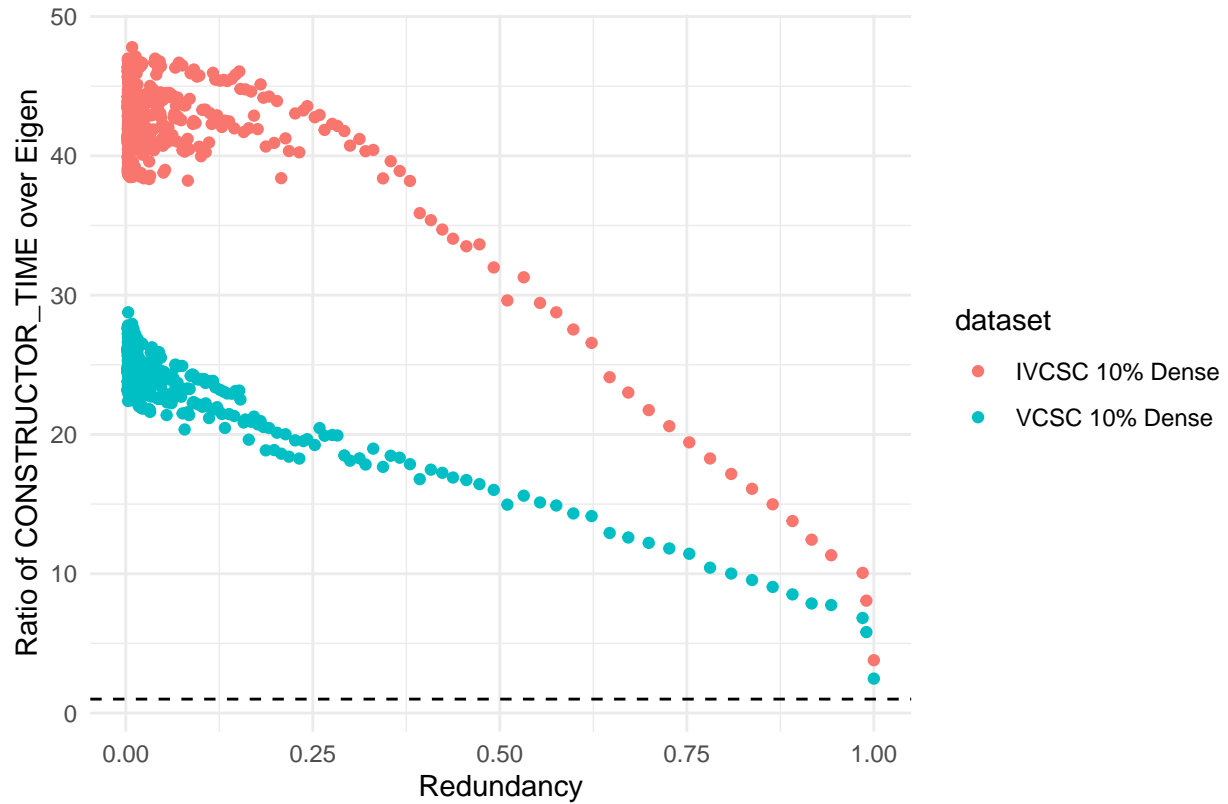


10% Dense

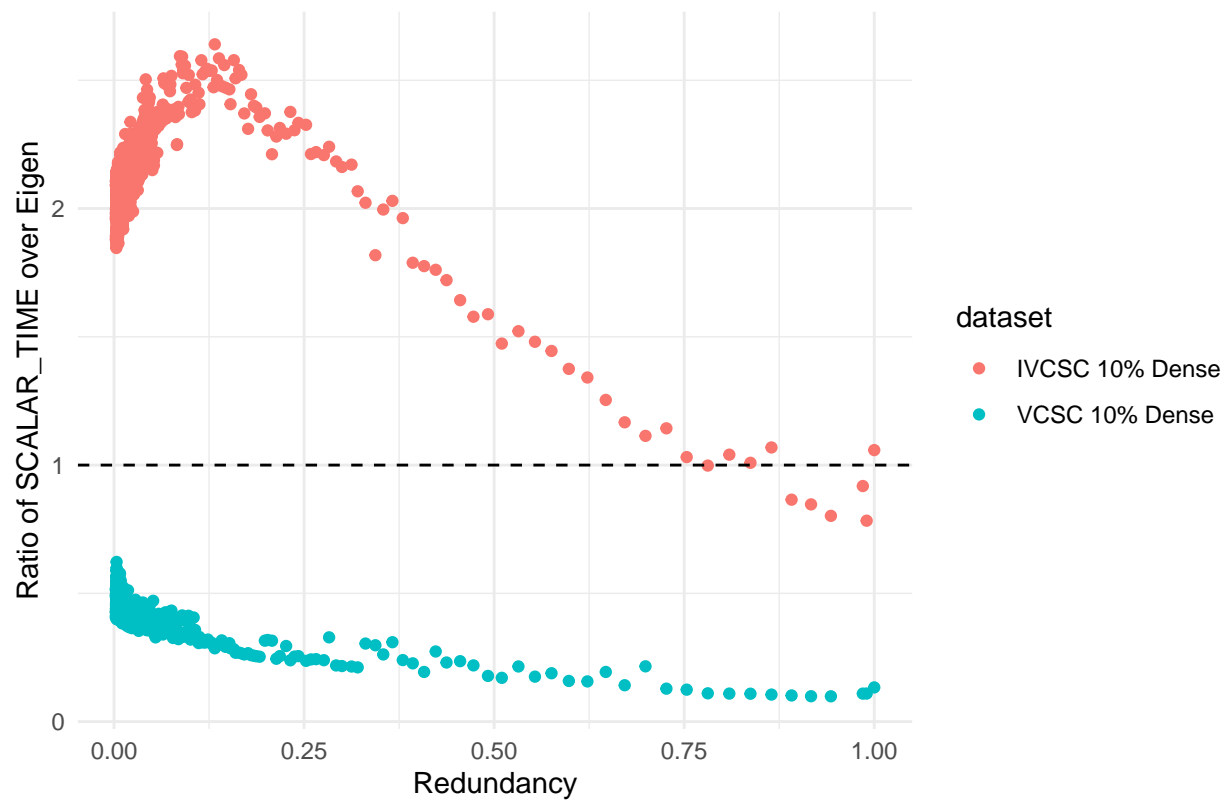
Comparison of Ratios of SIZE over Eigen



Comparison of Ratios of CONSTRUCTOR_TIME over Eigen



Comparison of Ratios of SCALAR_TIME over Eigen



Comparison of Ratios of SPMV_TIME over Eigen

