

# Table

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3/21/2021

## Load Results

```
library(ggplot2)
library(qs)

## qs v0.24.1.
library(dplyr)

##
## 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

suffix <- "ml0-9-2.qs"
files <- dir("./results/", "*.qs", full.names = T)
files <- files[grep(paste0("result-\\d+-.+"), suffix), files, perl=T]]

all_results <- lapply(files, qread, nthreads=2) %>% bind_rows
all_results <- all_results %>% mutate(
  # NIE = if_else(coef_setting == "small", 48*n^(-1/2), 2.4),
  # NDE = 2,
  # coverage_NDE = (lower_NDE <= NDE) & (NDE <= upper_NDE),
  # coverage_NIE = (lower_NIE <= NIE) & (NIE <= upper_NIE),
  scenario = toupper(scenario),
  inf_method = if_else(inf_method == "minner", "minnier", inf_method) # fix typo
)
all_results <- all_results %>%
  mutate(model_version = factor(model_version, levels=c(
    "product", "mixture", "adaptive", "full", "oracle"
  )))
```

## Including Plots

```
library(kableExtra)

##
## Attaching package: 'kableExtra'
```

```
## The following object is masked from 'package:dplyr':
```

```
##
```

```
##      group_rows
```

```
all_results %>% filter(inf_method=="naive_boot") %>%  
  filter(model_version %in% c("product", "mixture", "adaptive")) %>%  
  group_by(coef_setting, n, model_version, use_sl) %>%  
  summarize(PC = mean(num_missed == 0),  
            MN = median(num_noise)) %>%  
  # mutate(scenario=toupper(scenario),  
  #         val=if_else(col == "is_missed", 1-val, val),  
  #         col=if_else(col == "is_missed", "PC", "MN")) %>%  
  # tidyr::pivot_wider(id_cols=c(coefs, n, weight_name, SL),  
  #                   names_from=c(scenario, col),  
  #                   names_glue="{scenario}_{col}",  
  #                   values_from=val) %>%  
  arrange(coef_setting, n, desc(model_version), use_sl) %>%  
  kbl(booktabs=T, align="c", digits=2L, ) %>%  
  column_spec(1:2, bold=T) %>%  
  collapse_rows(1:2, latex_hline = "major", valign = "middle")
```

```
## `summarise()` regrouping output by 'coef_setting', 'n', 'model_version' (override with `.groups` arg)
```

coef_setting	n	model_version	use_sl	PC	MN
<b>large</b>	<b>500</b>	adaptive	FALSE	1.00	1
		adaptive	TRUE	1.00	1
		mixture	FALSE	1.00	1
		mixture	TRUE	1.00	1
		product	FALSE	1.00	1
		product	TRUE	1.00	1
	<b>1000</b>	adaptive	FALSE	1.00	1
		adaptive	TRUE	1.00	1
		mixture	FALSE	1.00	1
		mixture	TRUE	1.00	1
		product	FALSE	1.00	1
		product	TRUE	1.00	1
	<b>2000</b>	adaptive	FALSE	1.00	1
		adaptive	TRUE	1.00	1
		mixture	FALSE	1.00	1
		mixture	TRUE	1.00	1
		product	FALSE	1.00	1
		product	TRUE	1.00	1
	<b>4000</b>	adaptive	FALSE	1.00	1
		adaptive	TRUE	1.00	1
		mixture	FALSE	1.00	1
		mixture	TRUE	1.00	1
		product	FALSE	1.00	0
		product	TRUE	1.00	1
<b>small</b>	<b>500</b>	adaptive	FALSE	0.98	1
		adaptive	TRUE	0.98	1
		mixture	FALSE	0.99	1
		mixture	TRUE	0.99	1
		product	FALSE	1.00	0
		product	TRUE	1.00	1
	<b>1000</b>	adaptive	FALSE	0.98	1
		adaptive	TRUE	0.98	1
		mixture	FALSE	0.99	1
		mixture	TRUE	1.00	1
		product	FALSE	1.00	1
		product	TRUE	1.00	1
	<b>2000</b>	adaptive	FALSE	0.98	1
		adaptive	TRUE	0.99	1
		mixture	FALSE	0.99	1
		mixture	TRUE	0.99	1
		product	FALSE	1.00	1
		product	TRUE	1.00	1
	<b>4000</b>	adaptive	FALSE	0.98	1
		adaptive	TRUE	0.99	1
		mixture	FALSE	0.99	1
		mixture	TRUE	0.99	1
		product	FALSE	1.00	0
		product	TRUE	1.00	0