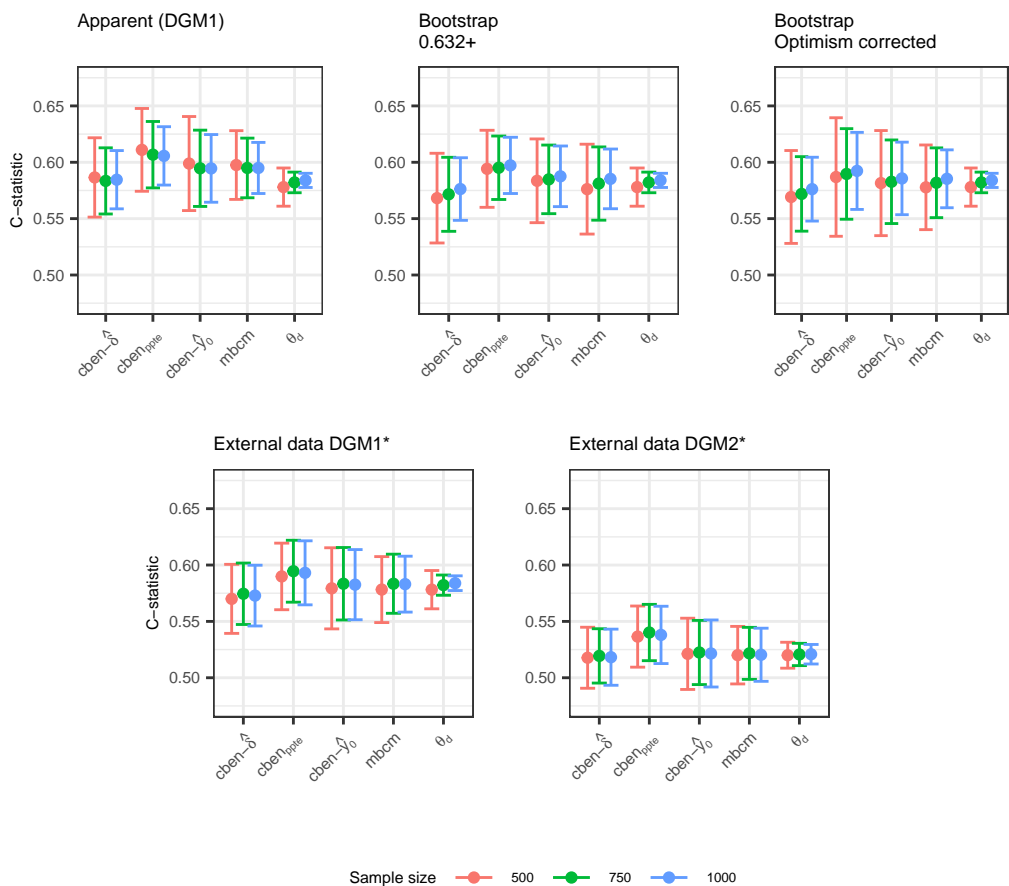


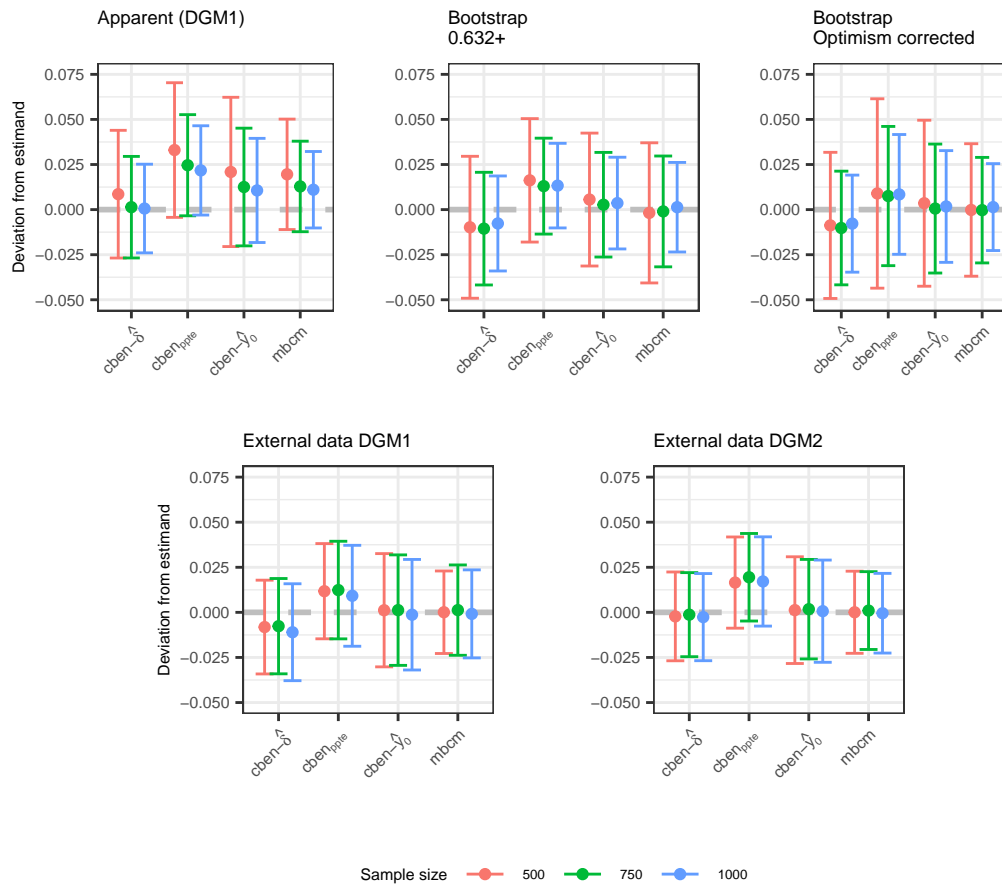
Replicate script

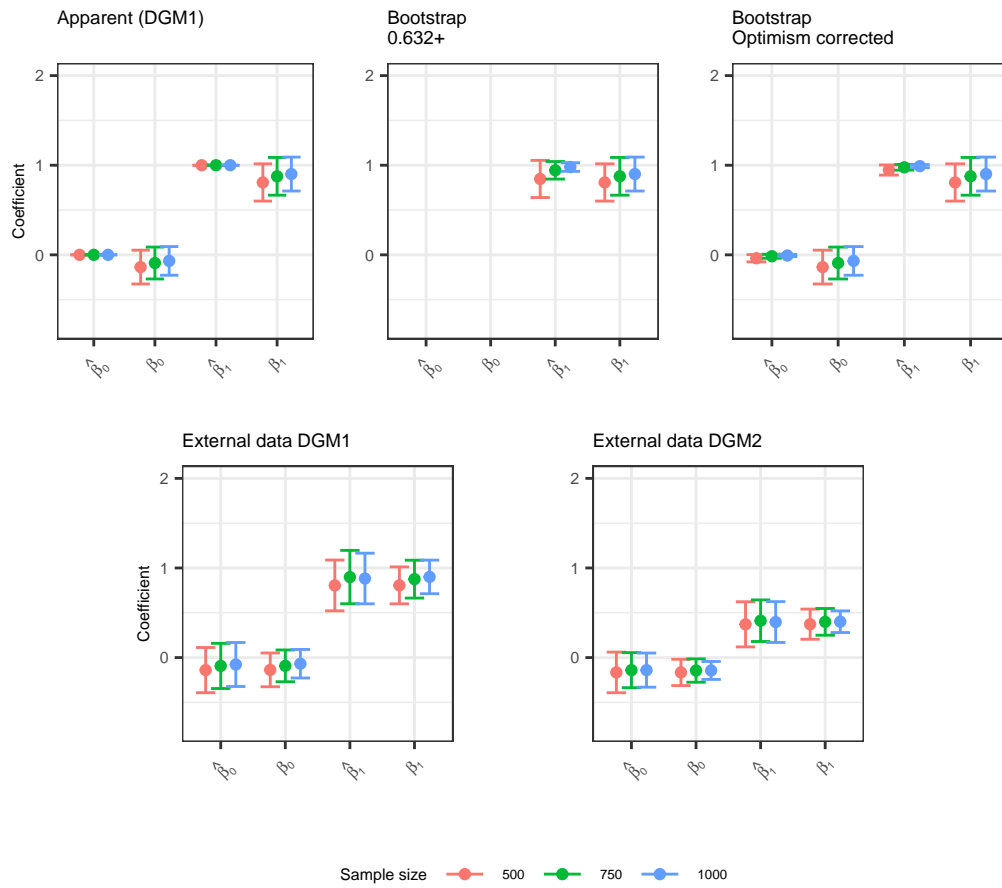
Samuel Langton

2024-12-16

Plots







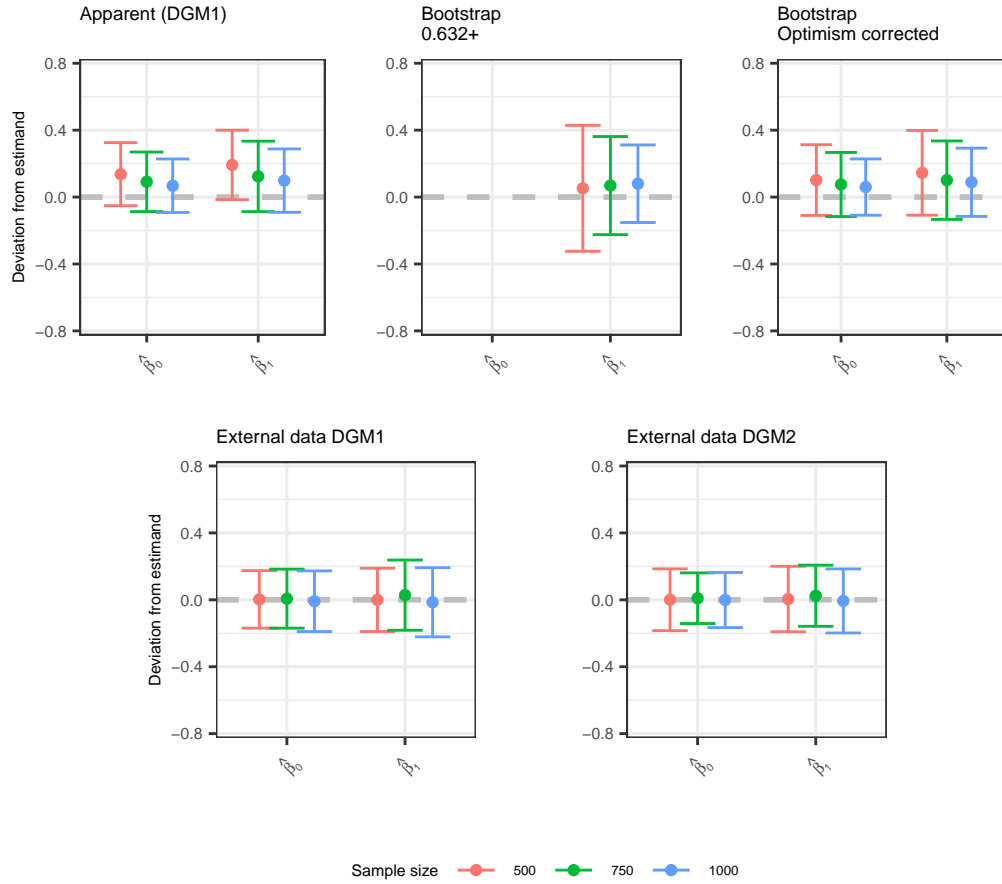


Table 1

| Statistic | V1 | V2 | V3 | V4 |
|-----------------|-------------------|-------------------|-------------------|-------------------|
| apparent.dscr | 0.036,0.028,0.025 | 0.05,0.037,0.033 | 0.046,0.035,0.031 | 0.036,0.028,0.024 |
| ext1.app.dscr | 0.027,0.027,0.029 | 0.029,0.03,0.029 | 0.033,0.032,0.029 | 0.037,0.028,0.024 |
| ext2.app.dscr | 0.025,0.023,0.024 | 0.03,0.031,0.03 | 0.042,0.042,0.042 | 0.085,0.08,0.078 |
| boot0.632.dscr | 0.041,0.033,0.027 | 0.038,0.03,0.027 | 0.037,0.029,0.026 | 0.039,0.031,0.025 |
| boot.opt.dscr | 0.041,0.033,0.028 | 0.053,0.039,0.034 | 0.046,0.036,0.031 | 0.037,0.029,0.024 |
| ext1.total.dscr | 0.027,0.027,0.029 | 0.029,0.03,0.029 | 0.031,0.031,0.031 | 0.023,0.025,0.024 |
| ext2.total.dscr | 0.025,0.023,0.024 | 0.03,0.031,0.03 | 0.03,0.028,0.028 | 0.023,0.022,0.022 |

Table 2

| Statistic | V1 | V2 | V3 | V4 | V5 | V6 |
|----------------|------|------|------|------|------|------|
| apparent.cal | 0.23 | 0.20 | 0.17 | 0.28 | 0.24 | 0.21 |
| boot0.632.cal | | | | 0.38 | 0.30 | 0.24 |
| boot.opt.cal | 0.23 | 0.21 | 0.18 | 0.29 | 0.26 | 0.22 |
| ext1.total.cal | 0.17 | 0.18 | 0.18 | 0.19 | 0.21 | 0.21 |
| ext2.total.cal | 0.18 | 0.15 | 0.16 | 0.20 | 0.18 | 0.19 |

Session info

replicate.R

```
sessionInfo()
```

```
R version 4.4.2 (2024-10-31 ucrt)
Platform: x86_64-w64-mingw32/x64
Running under: Windows 11 x64 (build 22621)
```

```
Matrix products: default
```

```
locale:
[1] LC_COLLATE=English_United States.utf8
[2] LC_CTYPE=English_United States.utf8
[3] LC_MONETARY=English_United States.utf8
[4] LC_NUMERIC=C
[5] LC_TIME=English_United States.utf8
```

```
time zone: Europe/Amsterdam
tzcode source: internal
```

```
attached base packages:
[1] stats      graphics  grDevices  utils      datasets  methods   base
```

```
other attached packages:
[1] DescTools_0.99.58 xtable_1.8-4      stringr_1.5.1     patchwork_1.3.0
```

[5] ggplot2_3.5.1

loaded via a namespace (and not attached):

| | | |
|---------------------------|-------------------|-------------------------|
| [1] gld_2.6.6 | gtable_0.3.6 | xfun_0.49 |
| [4] lattice_0.22-6 | vctrs_0.6.5 | tools_4.4.2 |
| [7] generics_0.1.3 | tibble_3.2.1 | proxy_0.4-27 |
| [10] fansi_1.0.6 | pkgconfig_2.0.3 | Matrix_1.7-1 |
| [13] data.table_1.16.4 | uuid_1.2-1 | readxl_1.4.3 |
| [16] lifecycle_1.0.4 | rootSolve_1.8.2.4 | flextable_0.9.7 |
| [19] compiler_4.4.2 | farver_2.1.2 | textshaping_0.4.1 |
| [22] Exact_3.3 | munsell_0.5.1 | fontquiver_0.2.1 |
| [25] fontLiberation_0.1.0 | htmltools_0.5.8.1 | class_7.3-22 |
| [28] yaml_2.3.10 | pillar_1.9.0 | MASS_7.3-61 |
| [31] openssl_2.2.2 | boot_1.3-31 | fontBitstreamVera_0.1.1 |
| [34] zip_2.3.1 | tidyselect_1.2.1 | digest_0.6.37 |
| [37] mvtnorm_1.3-2 | stringi_1.8.4 | dplyr_1.1.4 |
| [40] labeling_0.4.3 | forcats_1.0.0 | fastmap_1.2.0 |
| [43] grid_4.4.2 | colorspace_2.1-1 | lmom_3.2 |
| [46] expm_1.0-0 | cli_3.6.3 | magrittr_2.0.3 |
| [49] utf8_1.2.4 | e1071_1.7-16 | withr_3.0.2 |
| [52] gdttools_0.4.1 | scales_1.3.0 | rmarkdown_2.29 |
| [55] officer_0.6.7 | httr_1.4.7 | cellranger_1.1.0 |
| [58] askpass_1.2.1 | ragg_1.3.3 | hms_1.1.3 |
| [61] evaluate_1.0.1 | knitr_1.49 | haven_2.5.4 |
| [64] rlang_1.1.4 | Rcpp_1.0.13-1 | glue_1.8.0 |
| [67] xml2_1.3.6 | rstudioapi_0.17.1 | jsonlite_1.8.9 |
| [70] R6_2.5.1 | plyr_1.8.9 | systemfonts_1.1.0 |

sim.R

```
load("results/info.RData")
```

```
info
```

R version 4.4.2 (2024-10-31 ucrt)

Platform: x86_64-w64-mingw32/x64

Running under: Windows 11 x64 (build 22621)

Matrix products: default

```
locale:
[1] LC_COLLATE=English_United States.utf8
[2] LC_CTYPE=English_United States.utf8
[3] LC_MONETARY=English_United States.utf8
[4] LC_NUMERIC=C
[5] LC_TIME=English_United States.utf8

time zone: Europe/Amsterdam
tzcode source: internal

attached base packages:
[1] parallel stats graphics grDevices utils datasets methods
[8] base

other attached packages:
[1] pbapply_1.7-2 doParallel_1.0.17 iterators_1.0.14 foreach_1.5.2

loaded via a namespace (and not attached):
[1] compiler_4.4.2 tools_4.4.2 rstudioapi_0.17.1 codetools_0.2-20
```

population.R and support_functions.R

No packages loaded. Operating system and R version as above.