Replicate script

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2024-12-14

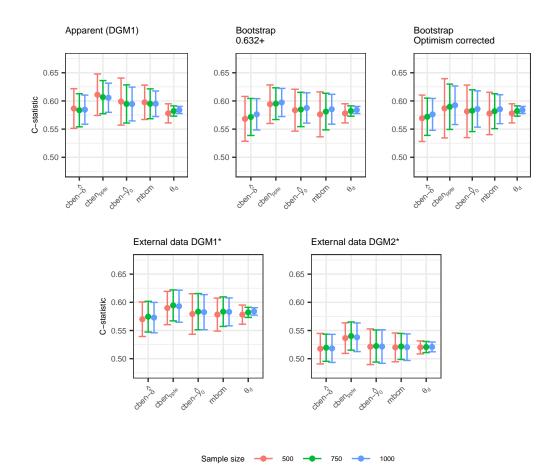
Replicate.R script

This loads in the simulations created during the codecheck after executing population.R and sim.R. Note that to reduce computation time for the codecheck, the number of simulations was reduced from 500 to 50.

| [1] "apparent.discr" | | "ext1.a | "ext1.app.discr" | | "ext1.total.discr" | | | |
|----------------------|-----|-------------|--------------------|------------|----------------------|----------------------|---------------------|--|
| [4] "ext2.app.discr" | | "ext2.1 | "ext2.total.discr" | | "boot0.632.discr" | | | |
| | [7 | 7] "boot.op | pt.discr" | "boot0 | .632.discr | .90ci" "boot0 | .632.discr.95ci" | |
| [| 1(|] "boot.oo | os.90ci.disc | r" "boot.o | oos.95ci.di | iscr" "appare | ent.cal" | |
| [| [13 | 3] "ext1.ap | pp.cal" | "ext1.1 | "ext1.total.cal" | | "ext2.app.cal" | |
| | |] "ext2.to | | "boot0 | | | "boot.opt.cal" | |
| | | | 632.cal.90ci' | " "boot0 | "boot0.632.cal.95ci" | | "boot.oos.90ci.cal" | |
| _ | _ | _ | os.90ci.cal" | "risk.o | | "rmspe' | | |
| _ | _ | _ | lapsed.sec" | | | p | | |
| ١ | |), 01m0.01 | Lapsou.soc | | | | | |
| | | | _ | | _ | | | |
| | | cstat | sd | upp | low | | sample.size | |
| 1 | L | 0.5865439 | 0.035197066 | 0.6217409 | 0.5513468 | cforbendelta | 500 | |
| 2 | 2 | 0.5988743 | 0.041716166 | 0.6405905 | 0.5571582 | cforbeny0 | | |
| 3 | 3 | 0.5975469 | 0.030474903 | 0.6280218 | 0.5670720 | mbcb | 500 | |
| 4 | ŀ | 0.6110042 | 0.036734848 | 0.6477390 | 0.5742693 | cforbennew | 500 | |
| 5 | 5 | 0.5779827 | 0.016952162 | 0.5949349 | 0.5610306 | theta_d | 500 | |
| 6 | 3 | 0.5834772 | 0.029353692 | 0.6128309 | 0.5541236 | ${\tt cforbendelta}$ | 750 | |
| 7 | 7 | 0.5946543 | 0.033842417 | 0.6284968 | 0.5608119 | cforbeny0 | 750 | |
| 8 | 3 | 0.5949698 | 0.026458125 | 0.6214280 | 0.5685117 | mbcb | 750 | |
| S |) | 0.6067403 | 0.029462780 | 0.6362031 | 0.5772775 | cforbennew | 750 | |
| 1 | 0 | 0.5821278 | 0.009145110 | 0.5912730 | 0.5729827 | theta_d | 750 | |
| 1 | 1 | 0.5845368 | 0.025839568 | 0.6103763 | 0.5586972 | ${\tt cforbendelta}$ | 1000 | |
| 1 | 2 | 0.5945721 | 0.030024276 | 0.6245964 | 0.5645478 | cforbeny0 | 1000 | |
| 1 | 13 | 0.5949573 | 0.022668978 | 0.6176262 | 0.5722883 | mbcb | 1000 | |
| | | | | | | | | |

| 14 | 0.6056754 | 0.025891329 | 0.6315667 | 0.5797841 | cforbennew | 1000 |
|----|-----------|-------------|-------------|-----------|----------------------|-------------|
| 15 | 0.5839368 | 0.006288036 | 0.5902248 | 0.5776487 | theta_d | 1000 |
| | | | | | | |
| | cstat | sd | ирр | low | statistic | sample.size |
| 1 | 0.5681921 | 0.039791064 | | | cforbendelta | 500 |
| 2 | 0.5835579 | 0.037155114 | 0.6207130 | 0.5464028 | cforbeny0 | 500 |
| 3 | 0.5761704 | 0.039873137 | 0.6160435 | 0.5362973 | mbcb | 500 |
| 4 | 0.5942065 | 0.034175108 | 0.6283816 | 0.5600314 | cforbennew | 500 |
| 5 | 0.5779827 | 0.016952162 | 0.5949349 | 0.5610306 | theta_d | 500 |
| 6 | 0.5715723 | 0.032838015 | 0.6044103 | 0.5387343 | ${\tt cforbendelta}$ | 750 |
| 7 | 0.5848388 | 0.030434672 | 0.6152735 | 0.5544041 | cforbeny0 | 750 |
| 8 | 0.5811245 | 0.032498961 | 0.6136235 | 0.5486255 | mbcb | 750 |
| 9 | 0.5951473 | 0.028153021 | 0.6233003 | 0.5669943 | cforbennew | 750 |
| 10 | 0.5821278 | 0.009145110 | 0.5912730 | 0.5729827 | theta_d | 750 |
| 11 | 0.5762545 | 0.027764691 | 0.6040192 | 0.5484899 | ${\tt cforbendelta}$ | 1000 |
| 12 | 0.5875507 | 0.026902286 | 0.6144530 | 0.5606484 | cforbeny0 | 1000 |
| 13 | 0.5852679 | 0.026492487 | 0.6117604 | 0.5587754 | mbcb | 1000 |
| 14 | 0.5972383 | 0.024944194 | 0.6221825 | 0.5722941 | cforbennew | 1000 |
| 15 | 0.5839368 | 0.006288036 | 0.5902248 | 0.5776487 | theta_d | 1000 |
| | | | | | | |
| | cstat | sd | ирр | low | statistic | sample.size |
| 1 | 0.5692247 | 0.041201991 | | 0.5280227 | cforbendelta | 500 |
| 2 | 0.5815205 | 0.046618250 | 0.6281388 | 0.5349023 | cforbeny0 | 500 |
| 3 | 0.5777891 | 0.037558708 | 0.6153478 | 0.5402304 | mbcb | 500 |
| 4 | 0.5869280 | 0.052585712 | 0.6395137 | 0.5343423 | cforbennew | 500 |
| 5 | 0.5779827 | 0.016952162 | 0.5949349 | 0.5610306 | theta_d | 500 |
| 6 | 0.5719327 | 0.033048685 | 0.6049814 | 0.5388841 | ${\tt cforbendelta}$ | 750 |
| 7 | 0.5827177 | 0.037071376 | 0.6197890 | 0.5456463 | cforbeny0 | 750 |
| 8 | 0.5818237 | 0.030937145 | 0.6127608 | 0.5508866 | mbcb | 750 |
| 9 | 0.5896406 | 0.040184994 | 0.6298256 | 0.5494556 | cforbennew | 750 |
| 10 | 0.5821278 | 0.009145110 | 0.5912730 | 0.5729827 | theta_d | 750 |
| 11 | 0.5761607 | 0.028303864 | 0.6044646 | 0.5478569 | ${\tt cforbendelta}$ | 1000 |
| 12 | 0.5856671 | 0.032182190 | 0.6178493 | 0.5534849 | cforbeny0 | 1000 |
| 13 | 0.5853371 | 0.025687168 | 0.6110242 | 0.5596499 | mbcb | 1000 |
| 14 | 0.5923651 | 0.034187399 | 0.6265525 | 0.5581777 | cforbennew | 1000 |
| 15 | 0.5839368 | 0.006288036 | 0.5902248 | 0.5776487 | theta_d | 1000 |
| | | | | | | |
| | cstat | sd | ирр | low | statistic | sample.size |
| 1 | | | | | cforbendelta | 500 |
| 2 | | 0.035991534 | | | cforbeny0 | 500 |
| 3 | | 0.029265840 | | | mbcb | 500 |
| 4 | | 0.029534132 | | | cforbennew | 500 |
| | | | · · · · · - | | | |

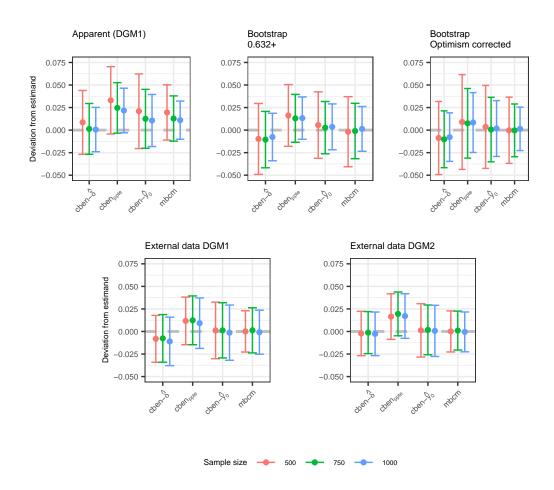
| 5 | 0.5781475 | 0.016993361 | 0.5951408 | 0.5611541 | theta_d | 500 |
|----|-----------|-------------|-----------|-----------|----------------------|-------------|
| 6 | 0.5745045 | 0.027248535 | 0.6017530 | 0.5472559 | ${\tt cforbendelta}$ | 750 |
| 7 | 0.5833987 | 0.032145160 | 0.6155439 | 0.5512535 | cforbeny0 | 750 |
| 8 | 0.5834054 | 0.026217999 | 0.6096234 | 0.5571874 | mbcb | 750 |
| 9 | 0.5945177 | 0.027466882 | 0.6219846 | 0.5670509 | cforbennew | 750 |
| 10 | 0.5821551 | 0.008986610 | 0.5911417 | 0.5731685 | theta_d | 750 |
| 11 | 0.5728782 | 0.026962234 | 0.5998405 | 0.5459160 | ${\tt cforbendelta}$ | 1000 |
| 12 | 0.5825806 | 0.031116307 | 0.6136969 | 0.5514643 | cforbeny0 | 1000 |
| 13 | 0.5830443 | 0.024795578 | 0.6078399 | 0.5582487 | mbcb | 1000 |
| 14 | 0.5930832 | 0.028401273 | 0.6214844 | 0.5646819 | cforbennew | 1000 |
| 15 | 0.5838900 | 0.006528296 | 0.5904183 | 0.5773617 | theta_d | 1000 |
| | | | | | | |
| | cstat | sd | ирр | low | statistic | sample.size |
| 1 | | | | | cforbendelta | 500 |
| 2 | | 0.031608473 | | | cforbeny0 | 500 |
| 3 | | 0.025528435 | | | mbcb | 500 |
| 4 | | 0.027126481 | | | cforbennew | 500 |
| 5 | 0.5199888 | 0.011501773 | 0.5314905 | 0.5084870 | theta_d | 500 |
| 6 | 0.5193809 | 0.024094824 | 0.5434757 | 0.4952860 | cforbendelta | 750 |
| 7 | 0.5224241 | 0.028475815 | 0.5508999 | 0.4939483 | cforbeny0 | 750 |
| 8 | 0.5216471 | 0.023066368 | 0.5447135 | 0.4985807 | mbcb | 750 |
| 9 | 0.5401311 | 0.024989812 | 0.5651209 | 0.5151413 | cforbennew | 750 |
| 10 | 0.5206548 | 0.009898813 | 0.5305536 | 0.5107560 | theta_d | 750 |
| 11 | 0.5182250 | 0.024898912 | 0.5431239 | 0.4933261 | cforbendelta | 1000 |
| 12 | 0.5215245 | 0.029738783 | 0.5512633 | 0.4917857 | cforbeny0 | 1000 |
| 13 | 0.5203912 | 0.023571423 | 0.5439626 | 0.4968197 | mbcb | 1000 |
| 14 | 0.5380004 | 0.025418967 | 0.5634194 | 0.5125814 | cforbennew | 1000 |
| 15 | 0.5208671 | 0.008651285 | 0.5295184 | 0.5122158 | theta_d | 1000 |
| | | | | | _ | |



| | cstat | sd | ирр | low | statistic | sample.size |
|----|-------------|------------|------------|--------------|----------------------|-------------|
| 1 | 0.008561130 | 0.03539334 | 0.04395447 | -0.026832211 | ${\tt cforbendelta}$ | 500 |
| 2 | 0.020891590 | 0.04139343 | 0.06228502 | -0.020501842 | cforbeny0 | 500 |
| 3 | 0.019564208 | 0.03061850 | 0.05018271 | -0.011054293 | mbcb | 500 |
| 4 | 0.033021432 | 0.03733107 | 0.07035251 | -0.004309641 | cforbennew | 500 |
| 5 | 0.001349400 | 0.02815207 | 0.02950147 | -0.026802666 | ${\tt cforbendelta}$ | 750 |
| 6 | 0.012526500 | 0.03263117 | 0.04515767 | -0.020104671 | cforbeny0 | 750 |
| 7 | 0.012841990 | 0.02510430 | 0.03794629 | -0.012262312 | mbcb | 750 |
| 8 | 0.024612471 | 0.02803762 | 0.05265009 | -0.003425152 | cforbennew | 750 |
| 9 | 0.000600005 | 0.02458595 | 0.02518596 | -0.023985947 | ${\tt cforbendelta}$ | 1000 |
| 10 | 0.010635316 | 0.02887762 | 0.03951294 | -0.018242306 | cforbeny0 | 1000 |
| 11 | 0.011020490 | 0.02119227 | 0.03221276 | -0.010171781 | mbcb | 1000 |
| 12 | 0.021738619 | 0.02475538 | 0.04649400 | -0.003016762 | cforbennew | 1000 |
| | | | | | | |
| | cstat | t so | d upp | low | statistic | sample.size |

```
500
1
  -0.009790596 0.03934809 0.02955749 -0.04913868 cforbendelta
   0.005575159 0.03684405 0.04241921 -0.03126889
                                                                         500
2
                                                      cforbeny0
3
  -0.001812338 0.03884634 0.03703400 -0.04065868
                                                           mbcb
                                                                         500
4
   0.016223742 0.03422068 0.05044442 -0.01799693
                                                     cforbennew
                                                                         500
  -0.010555550 0.03123662 0.02068107 -0.04179217 cforbendelta
                                                                         750
   0.002710953 0.02900308 0.03171404 -0.02629213
                                                                         750
                                                      cforbeny0
7
  -0.001003359 0.03072220 0.02971884 -0.03172556
                                                           mbcb
                                                                         750
   0.013019442 0.02659750 0.03961694 -0.01357806
                                                     cforbennew
                                                                         750
  -0.007682227 0.02634340 0.01866117 -0.03402562 cforbendelta
                                                                       1000
10 0.003613935 0.02542117 0.02903510 -0.02180723
                                                      cforbeny0
                                                                        1000
11 0.001331127 0.02482659 0.02615772 -0.02349546
                                                                        1000
                                                           mbcb
12 0.013301566 0.02345780 0.03675936 -0.01015623
                                                                        1000
                                                     cforbennew
                                                       statistic sample.size
           cstat
                         sd
                                                low
                                    upp
1
  -0.0087580652 0.04051633 0.03175827 -0.04927440 cforbendelta
                                                                          500
   0.0035377947 0.04602294 0.04956073 -0.04248515
                                                                          500
2
                                                       cforbeny0
  -0.0001936423 0.03673495 0.03654131 -0.03692860
                                                                          500
                                                            mbcb
   0.0089452380 0.05250097 0.06144621 -0.04355574
                                                      cforbennew
                                                                          500
  -0.0101951080 0.03151499 0.02131988 -0.04171010 cforbendelta
                                                                          750
   0.0005898155 0.03575819 0.03634801 -0.03516838
                                                       cforbeny0
                                                                          750
6
  -0.0003041510 0.02926037 0.02895622 -0.02956452
7
                                                            mbcb
                                                                          750
   0.0075127723 0.03859941 0.04611218 -0.03108663
                                                                          750
                                                      cforbennew
  -0.0077760459 0.02690685 0.01913080 -0.03468290 cforbendelta
                                                                         1000
10 0.0017303198 0.03097588 0.03270620 -0.02924556
                                                                         1000
                                                       cforbeny0
  0.0014002920 0.02409151 0.02549180 -0.02269121
                                                            mbcb
                                                                         1000
12 0.0084283347 0.03320529 0.04163362 -0.02477696
                                                                         1000
                                                      cforbennew
                                                       statistic sample.size
           cstat
                         sd
                                                low
                                   upp
   -8.150742e-03 0.02599717 0.01784643 -0.03414791 cforbendelta
                                                                          500
2
   1.184837e-03 0.03139832 0.03258316 -0.03021349
                                                                          500
                                                       cforbeny0
3
   7.362482e-05 0.02288654 0.02296016 -0.02281291
                                                            mbcb
                                                                          500
   1.173875e-02 0.02640280 0.03814155 -0.01466405
                                                      cforbennew
                                                                          500
  -7.650649e-03 0.02642117 0.01877052 -0.03407181 cforbendelta
                                                                          750
6
   1.243589e-03 0.03062979 0.03187338 -0.02938620
                                                       cforbeny0
                                                                          750
7
   1.250284e-03 0.02504571 0.02629600 -0.02379543
                                                                          750
                                                            mbcb
   1.236264e-02 0.02706323 0.03942588 -0.01470059
                                                                          750
8
                                                      cforbennew
  -1.101176e-02 0.02686098 0.01584922 -0.03787273 cforbendelta
                                                                         1000
10 -1.309335e-03 0.03064364 0.02933430 -0.03195297
                                                                         1000
                                                       cforbeny0
11 -8.456939e-04 0.02440098 0.02355529 -0.02524668
                                                            mbcb
                                                                         1000
12 9.193194e-03 0.02798195 0.03717514 -0.01878875
                                                                         1000
                                                      cforbennew
                                                        statistic sample.size
           cstat
                         sd
                                    upp
                                                 low
```

```
-2.233034e-03 0.02462087 0.02238783 -0.026853900 cforbendelta
                                                                           500
1
                                                         cforbeny0
2
    1.232489e-03 0.02959399 0.03082648 -0.028361499
                                                                           500
3
    6.204246e-05 0.02277321 0.02283525 -0.022711164
                                                              mbcb
                                                                           500
4
    1.652049e-02 0.02528518 0.04180567 -0.008764686
                                                        cforbennew
                                                                           500
   -1.273958e-03 0.02331686 0.02204291 -0.024590823 cforbendelta
5
                                                                           750
6
    1.769275e-03 0.02757900 0.02934827 -0.025809720
                                                         cforbeny0
                                                                           750
7
   9.922829e-04 0.02156981 0.02256209 -0.020577528
                                                              mbcb
                                                                           750
8
    1.947631e-02 0.02427012 0.04374643 -0.004793812
                                                        cforbennew
                                                                           750
9
  -2.642110e-03 0.02416429 0.02152218 -0.026806401 cforbendelta
                                                                          1000
10
   6.573724e-04 0.02834664 0.02900402 -0.027689270
                                                                          1000
                                                         cforbeny0
11 -4.759449e-04 0.02209092 0.02161498 -0.022566869
                                                                          1000
                                                              mbcb
    1.713329e-02 0.02474093 0.04187423 -0.007607644
                                                                          1000
                                                        cforbennew
```



% latex table generated in R 4.4.2 by xtable 1.8-4 package

```
% Sat Dec 14 07:51:26 2024
\begin{table}[ht]
\centering
\begin{tabular}{rllll}
  \hline
 & 1 & 2 & 3 & 4 \\
  \hline
apparent.discr & 0.036,0.028,0.025 & 0.05,0.037,0.033 & 0.046,0.035,0.031 & 0.036,0.028,0.02
  ext1.app.discr & 0.027,0.027,0.029 & 0.029,0.03,0.029 & 0.033,0.032,0.029 & 0.037,0.028,0.0
  ext2.app.discr & 0.025,0.023,0.024 & 0.03,0.031,0.03 & 0.042,0.042,0.042 & 0.085,0.08,0.07
  boot0.632.discr & 0.041,0.033,0.027 & 0.038,0.03,0.027 & 0.037,0.029,0.026 & 0.039,0.031,0
  boot.opt.discr & 0.041,0.033,0.028 & 0.053,0.039,0.034 & 0.046,0.036,0.031 & 0.037,0.029,0
  ext1.total.discr & 0.027,0.027,0.029 & 0.029,0.03,0.029 & 0.031,0.031,0.031 & 0.023,0.025,
  ext2.total.discr & 0.025,0.023,0.024 & 0.03,0.031,0.03 & 0.03,0.028,0.028 & 0.023,0.022,0.0
   \hline
\end{tabular}
\end{table}
                                                           statistic sample.size
            mean
                            sd
                                        upp
                                                      low
   -4.794730e-11 1.752756e-10 1.273283e-10 -2.232229e-10
                                                             emp.int
                                                                              500
2
   -1.366212e-01 1.885394e-01 5.191829e-02 -3.251606e-01
                                                            true.int
                                                                              500
    1.000000e+00 4.087790e-10 1.000000e+00 1.000000e+00
                                                           emp.slope
                                                                              500
    8.078761e-01 2.078815e-01 1.015758e+00 5.999945e-01 true.slope
                                                                              500
4
   -2.558405e-11 1.149490e-10 8.936497e-11 -1.405331e-10
5
                                                             emp.int
                                                                              750
   -9.137230e-02 1.780623e-01 8.669004e-02 -2.694346e-01
                                                                              750
                                                            true.int
7
    1.000000e+00 2.614513e-10 1.000000e+00 1.000000e+00
                                                           emp.slope
                                                                              750
    8.763272e-01 2.106283e-01 1.086956e+00 6.656990e-01 true.slope
                                                                              750
8
   -3.855106e-11 1.185684e-10 8.001730e-11 -1.571194e-10
                                                             emp.int
                                                                             1000
10 -6.769499e-02 1.598721e-01 9.217709e-02 -2.275671e-01
                                                             true.int
                                                                             1000
11 1.000000e+00 1.590536e-10 1.000000e+00 1.000000e+00
                                                           emp.slope
                                                                             1000
12 9.016371e-01 1.893662e-01 1.091003e+00 7.122709e-01 true.slope
                                                                             1000
                                             statistic sample.size
        mean
                     sd
                              upp
                                        low
1
                     NA
          NA
                              NA
                                         NA
                                               emp.int
                                                                500
2
          NA
                     NA
                              NA
                                         NA
                                              true.int
                                                                500
   0.8468382 0.20738573 1.054224 0.6394525
3
                                             emp.slope
                                                                500
   0.8078761 0.20788154 1.015758 0.5999945 true.slope
                                                                500
5
          NA
                     NA
                              NA
                                         NA
                                               emp.int
                                                               750
                     NA
6
                              NA
                                              true.int
                                                               750
   0.9433830\ 0.09780614\ 1.041189\ 0.8455769
7
                                             emp.slope
                                                               750
8
   0.8763272 0.21062828 1.086956 0.6656990 true.slope
                                                               750
```

NA

emp.int

9

NA

NA

NA

1000

```
11 0.9798228 0.04805040 1.027873 0.9317724
                                                              1000
                                            emp.slope
                                                              1000
12 0.9016371 0.18936615 1.091003 0.7122709 true.slope
                        sd
                                                     statistic sample.size
           mean
                                   upp
                                                low
  -0.037959527 0.04031784 0.002358317 -0.07827737
                                                       emp.int
                                                                       500
  -0.136621156 0.18853945 0.051918292 -0.32516060
                                                      true.int
                                                                       500
  0.946546794 0.05654176 1.003088549 0.89000504
                                                                       500
                                                     emp.slope
   0.807876079 0.20788154 1.015757622 0.59999454 true.slope
                                                                       500
  -0.015677624 0.02254062 0.006862994 -0.03821824
                                                       emp.int
                                                                       750
  -0.091372304 0.17806234 0.086690036 -0.26943464
                                                                       750
                                                      true.int
   0.976970882 0.03170539 1.008676275 0.94526549
                                                                       750
7
                                                     emp.slope
  0.876327233 0.21062828 1.086955510 0.66569896 true.slope
                                                                       750
8
  -0.007347315 0.01229143 0.004944119 -0.01963875
                                                       emp.int
                                                                      1000
10 -0.067694988 0.15987208 0.092177095 -0.22756707
                                                      true.int
                                                                      1000
11 0.989582455 0.01745407 1.007036522 0.97212839
                                                     emp.slope
                                                                      1000
12  0.901637064  0.18936615  1.091003216  0.71227091 true.slope
                                                                      1000
          mean
                      sd
                                upp
                                           low
                                                 statistic sample.size
  -0.13957964 0.2521453 0.11256564 -0.3917249
                                                   emp.int
                                                                   500
  -0.13710921 0.1884454 0.05133615 -0.3255546
                                                  true.int
                                                                   500
   0.80538008 0.2834549 1.08883503 0.5219251
3
                                                 emp.slope
                                                                   500
4
   0.80605764 0.2060100 1.01206761 0.6000477 true.slope
                                                                   500
  -0.09296934 0.2521239 0.15915456 -0.3450932
                                                   emp.int
                                                                   750
  -0.09215920 0.1772456 0.08508641 -0.2694048
                                                                   750
                                                  true.int
7
   0.89848549 0.2979026 1.19638806 0.6005829
                                                 emp.slope
                                                                   750
   0.87558312 0.2113465 1.08692959 0.6642367 true.slope
                                                                   750
  -0.07712158 0.2452540 0.16813238 -0.3223755
                                                                  1000
                                                   emp.int
10 -0.06853756 0.1589737 0.09043617 -0.2275113
                                                  true.int
                                                                  1000
  0.88259850 0.2826087 1.16520722 0.5999898
                                                                  1000
                                                 emp.slope
12  0.90036224  0.1875337  1.08789593  0.7128286 true.slope
                                                                  1000
                                                  statistic sample.size
         mean
                      sd
                                            low
                                 upp
  -0.1654574 0.22660877
                          0.06115134 -0.3920662
                                                    emp.int
                                                                    500
  -0.1656092 0.14659173 -0.01901748 -0.3122009
                                                   true.int
                                                                    500
   0.3710362 0.25183990
                                                  emp.slope
                                                                    500
3
                          0.62287614 0.1191963
4
   0.3727146 0.16830666
                          0.54102125  0.2044079 true.slope
                                                                    500
  -0.1403473 0.19564685
                          0.05529955 -0.3359941
                                                    emp.int
                                                                    750
  -0.1444982 0.13037411 -0.01412409 -0.2748723
                                                   true.int
                                                                    750
7
   0.4114472 0.23203072 0.64347789 0.1794164
                                                  emp.slope
                                                                    750
                                                                    750
   0.3988872 0.14898314
                          0.54787037 0.2499041 true.slope
8
 -0.1398747 0.19047338 0.05059864 -0.3303481
                                                    emp.int
                                                                   1000
```

1000

10

NΑ

NA

NA

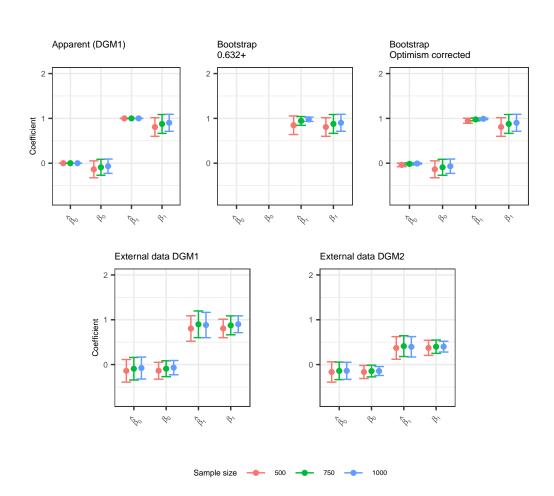
NΑ

true.int

```
      10 -0.1436976 0.09991957 -0.04377802 -0.2436172 true.int
      1000

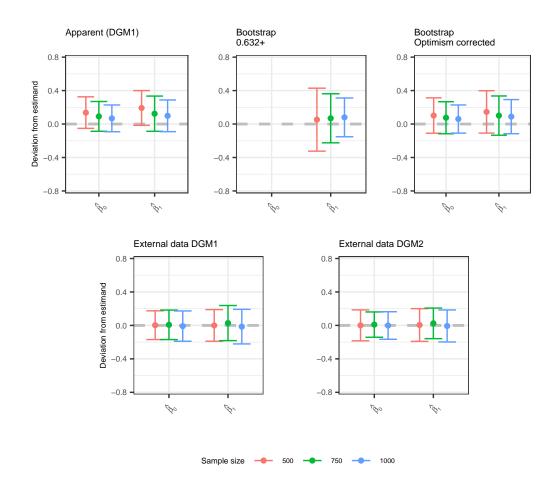
      11 0.3967315 0.22786560 0.62459711 0.1688659 emp.slope
      1000

      12 0.4003533 0.12079230 0.52114557 0.2795610 true.slope
      1000
```



| | mean | sd | upp | low | ${\tt statistic}$ | sample.size |
|---|------------|-----------|-----------|-------------|-------------------|-------------|
| 1 | 0.13662116 | 0.1885394 | 0.3251606 | -0.05191829 | int | 500 |
| 2 | 0.19212392 | 0.2078815 | 0.4000055 | -0.01575762 | slope | 500 |
| 3 | 0.09137230 | 0.1780623 | 0.2694346 | -0.08669004 | int | 750 |
| 4 | 0.12367277 | 0.2106283 | 0.3343010 | -0.08695551 | slope | 750 |
| 5 | 0.06769499 | 0.1598721 | 0.2275671 | -0.09217710 | int | 1000 |
| 6 | 0.09836294 | 0.1893662 | 0.2877291 | -0.09100322 | slope | 1000 |
| | | | | | _ | |
| | m.c.c.m | sd | | J 0 22 6 | ****** | rommlo dido |
| | mean | Su | upp | TOM 2 | statistic : | sample.size |
| 1 | NA | NA | NA | NA | int | 500 |

```
2 0.05240193 0.3764874 0.4288893 -0.3240855
                                                 slope
                                                                500
                                                   int
                                                                750
          NA
                    NA
                              NA
                                          NA
4 0.06866765 0.2931747 0.3618423 -0.2245070
                                                 slope
                                                                750
                                                   int
                                                               1000
          NA
                    NA
                               NA
6 0.07975627 0.2318172 0.3115735 -0.1520609
                                                               1000
                                                 slope
                                         low statistic sample.size
                    sd
                              upp
1 0.10164873 0.2113736 0.3130224 -0.1097249
                                                   int
                                                                500
2 0.14501750 0.2532390 0.3982565 -0.1082215
                                                 slope
                                                                500
3 0.07525970 0.1916575 0.2669172 -0.1163978
                                                   int
                                                                750
4 0.10099851 0.2346099 0.3356084 -0.1336114
                                                 slope
                                                                750
5 0.05975770 0.1684078 0.2281655 -0.1086501
                                                   int
                                                               1000
6 0.08845558 0.2040805 0.2925361 -0.1156249
                                                 slope
                                                               1000
                                            low statistic sample.size
           mean
                       sd
                                 upp
1 0.0026233992 0.1718678 0.1744912 -0.1692444
                                                      int
2 -0.0001563897 0.1893030 0.1891466 -0.1894594
                                                    slope
                                                                   500
3 0.0071399616 0.1763509 0.1834909 -0.1692110
                                                                   750
                                                      int
4 0.0280150170 0.2099579 0.2379729 -0.1819429
                                                    slope
                                                                   750
5 -0.0083060608 0.1813221 0.1730161 -0.1896282
                                                                  1000
                                                      int
6 -0.0144947497 0.2068593 0.1923646 -0.2213541
                                                    slope
                                                                  1000
                      sd
                                           low statistic sample.size
          mean
                                upp
1 0.000479276 0.1847808 0.1852601 -0.1843015
                                                      int
                                                                  500
2 0.004757752 0.1956196 0.2003774 -0.1908619
                                                   slope
                                                                  500
3 0.009642852 0.1513645 0.1610074 -0.1417217
                                                     int
                                                                  750
4 0.024512313 0.1828391 0.2073514 -0.1583268
                                                   slope
                                                                  750
5 -0.001180803 0.1648076 0.1636268 -0.1659884
                                                      int
                                                                 1000
6 -0.006711444 0.1914999 0.1847884 -0.1982113
                                                                 1000
                                                   slope
```



```
% latex table generated in R 4.4.2 by xtable 1.8-4 package
% Sat Dec 14 07:51:29 2024
\begin{table}[ht]
\centering
\begin{tabular}{rrrrrr}
\hline
& 1 & 2 & 3 & 4 & 5 & 6 \\
\hline
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 \\
hline
```

\end{tabular}

\end{table}

Session info

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] | utf8_1.2.4 | generics_0.1.3 | class_7.3-22 | stringi_1.8.4 |
|------|------------------|----------------|----------------------------|----------------|
| [5] | lattice_0.22-6 | hms_1.1.3 | digest_0.6.37 | magrittr_2.0.3 |
| [9] | evaluate_1.0.1 | grid_4.4.2 | mvtnorm_1.3-2 | fastmap_1.2.0 |
| [13] | cellranger_1.1.0 | plyr_1.8.9 | jsonlite_1.8.9 | Matrix_1.7-1 |
| [17] | e1071_1.7-16 | httr_1.4.7 | fansi_1.0.6 | scales_1.3.0 |
| [21] | cli_3.6.3 | rlang_1.1.4 | expm_1.0-0 | munsell_0.5.1 |
| [25] | withr_3.0.2 | yaml_2.3.10 | ${\tt rootSolve_1.8.2.4}$ | tools_4.4.2 |
| [29] | lmom_3.2 | gld_2.6.6 | Exact_3.3 | dplyr_1.1.4 |
| [33] | colorspace_2.1-1 | forcats_1.0.0 | boot_1.3-31 | vctrs_0.6.5 |
| [37] | R6_2.5.1 | proxy_0.4-27 | lifecycle_1.0.4 | MASS_7.3-61 |

```
[41] pkgconfig_2.0.3 pillar_1.9.0 gtable_0.3.6 glue_1.8.0 [45] data.table_1.16.4 Rcpp_1.0.13-1 haven_2.5.4 xfun_0.49 [49] tibble_3.2.1 tidyselect_1.2.1 rstudioapi_0.17.1 knitr_1.49 [53] farver_2.1.2 htmltools_0.5.8.1 rmarkdown_2.29 labeling_0.4.3 [57] compiler_4.4.2 readxl_1.4.3
```