

Redo Cate Only Simulations

David Gerard

2016-04-26

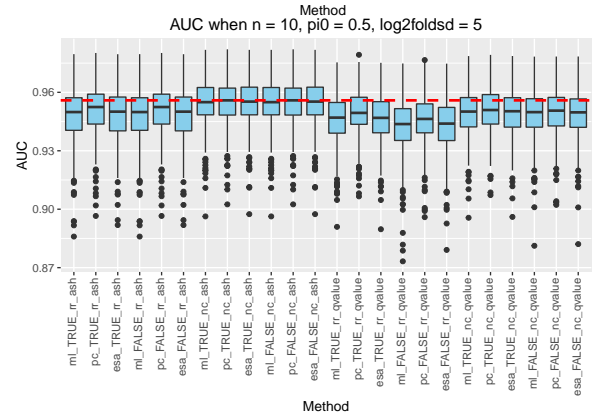
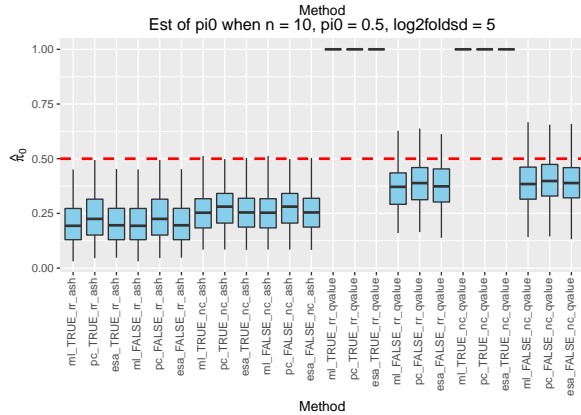
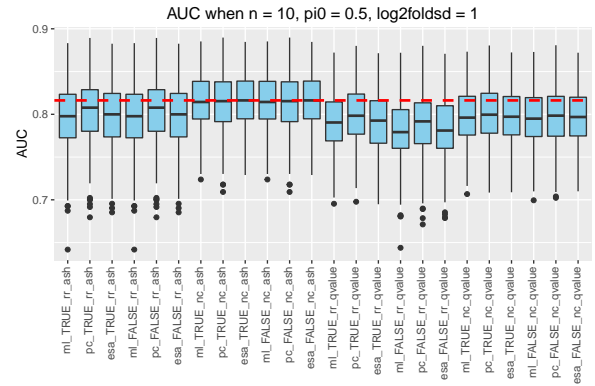
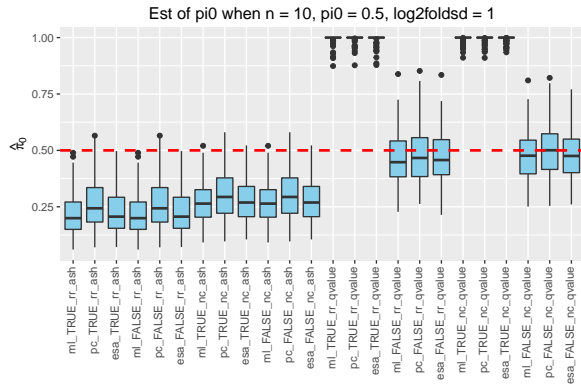
Abstract

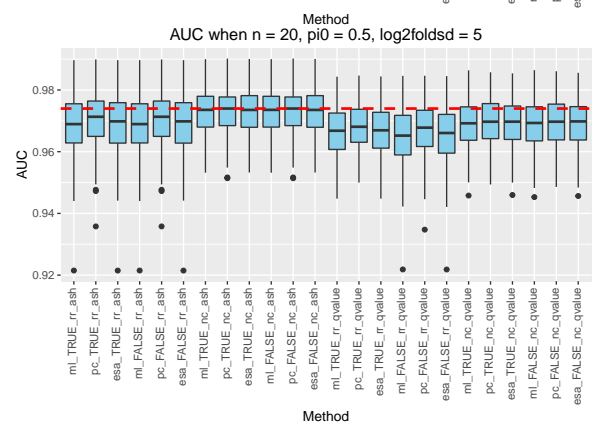
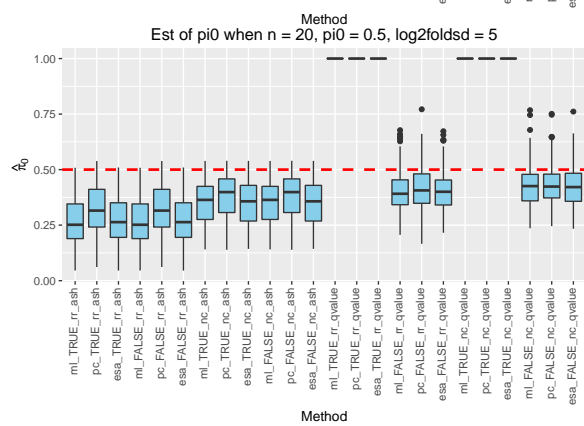
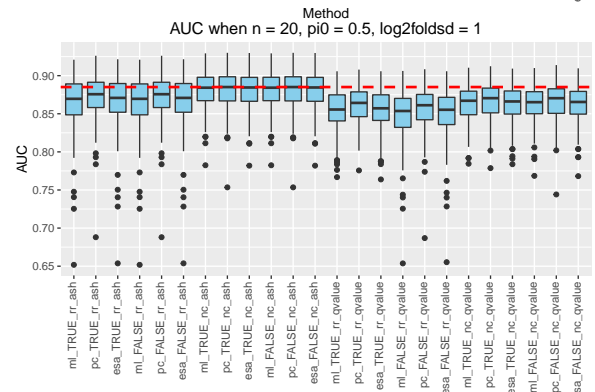
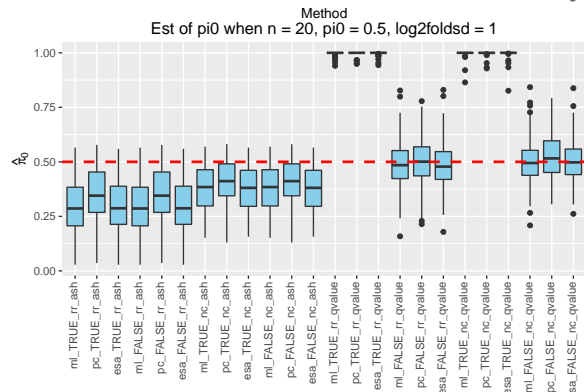
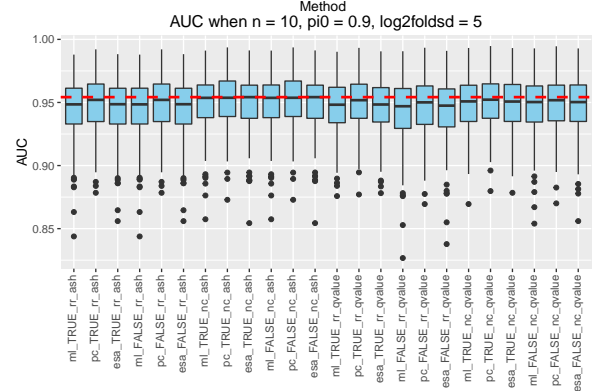
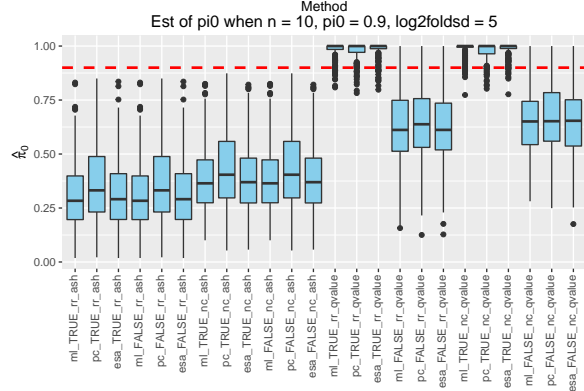
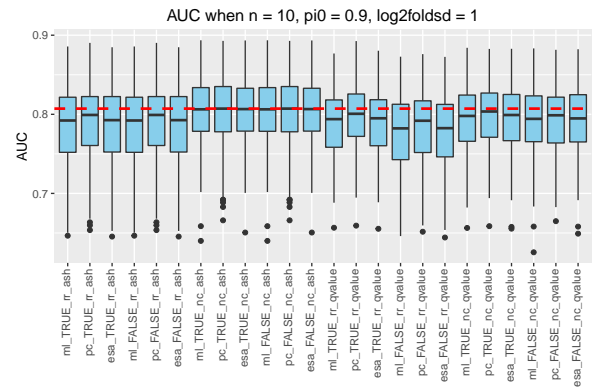
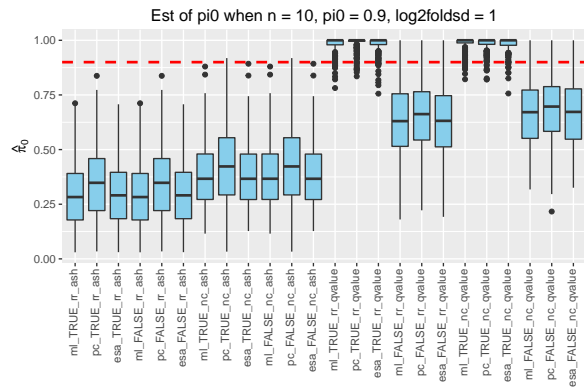
This is a redo of some CATE-only simulations. In previous simulations, I accidentally inflated the variance, resulting in surprisingly good performance. Here, I correct this mistake and observe poorer performance.

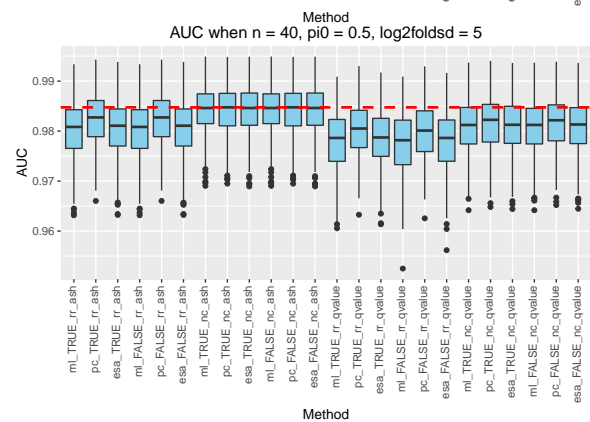
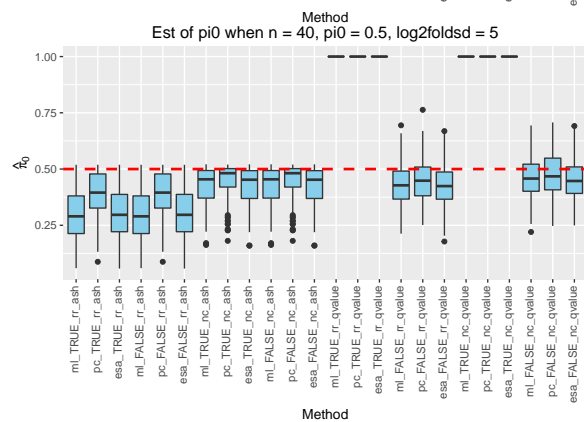
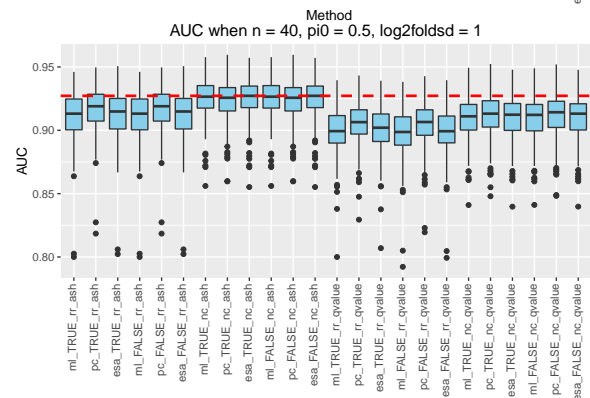
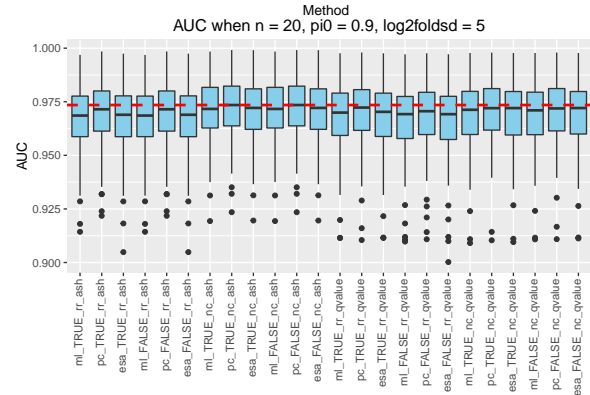
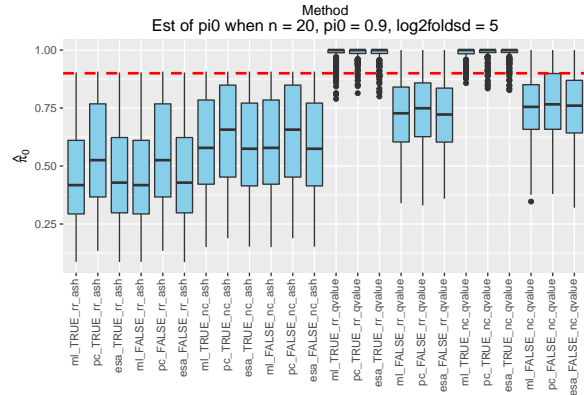
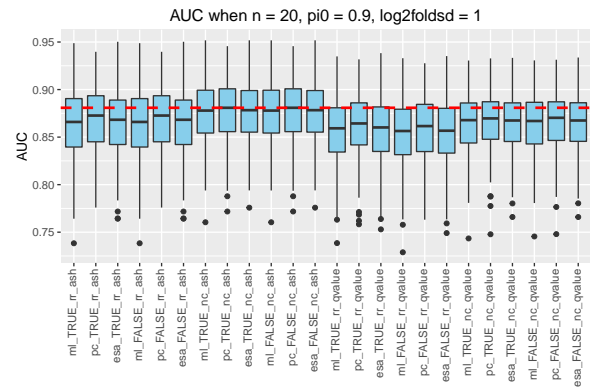
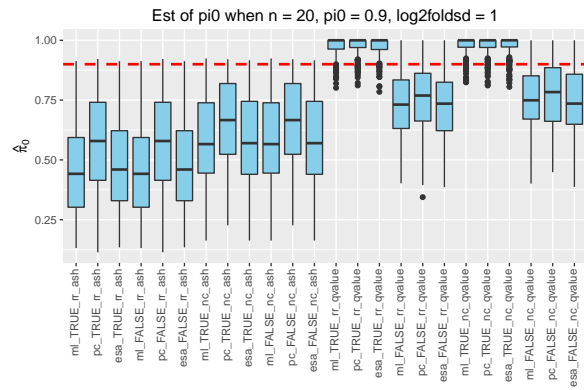
Results

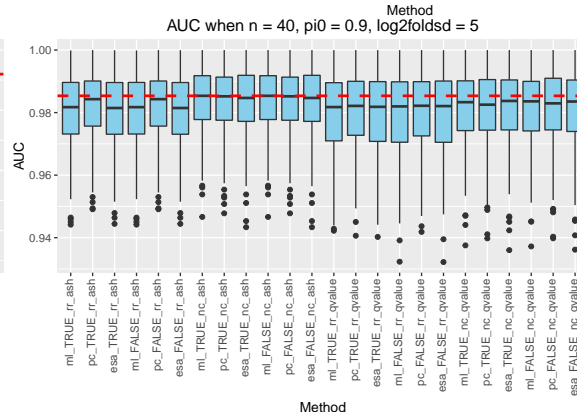
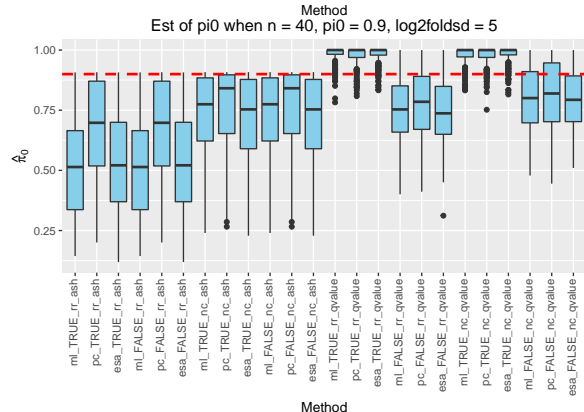
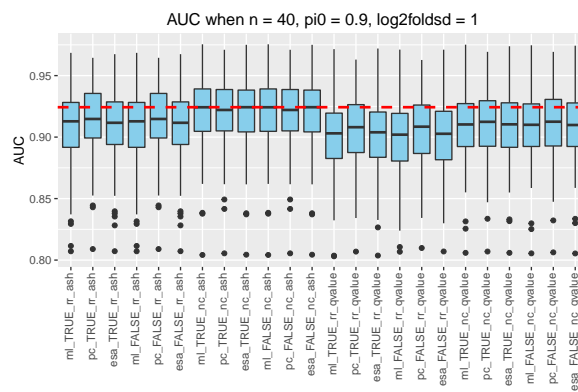
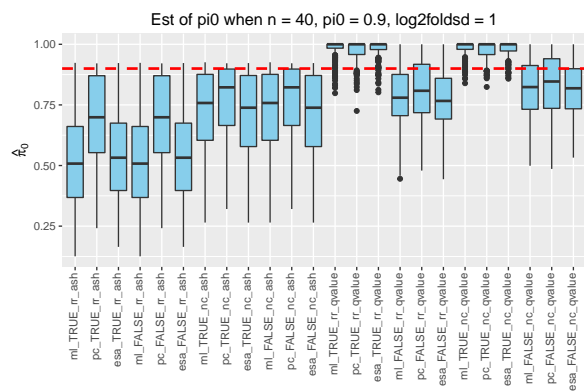
To view a description of these simulations and the results when the variance was inflated, please see http://dcgerard.github.io/succotash_sims/analysis/varyNsampNullpiLog2sd_cateonly.pdf.

The estimates of π_0 are no longer nearly perfect when $n = 40$.









```
sessionInfo()
```

```
## R version 3.2.5 (2016-04-14)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Ubuntu 14.04.4 LTS
##
## locale:
##  [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
##  [3] LC_TIME=en_US.UTF-8      LC_COLLATE=en_US.UTF-8
##  [5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=en_US.UTF-8
##  [7] LC_PAPER=en_US.UTF-8     LC_NAME=C
##  [9] LC_ADDRESS=C             LC_TELEPHONE=C
## [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## other attached packages:
## [1] reshape2_1.4.1 xtable_1.8-2 knitr_1.12.24 ggplot2_2.1.0
##
## loaded via a namespace (and not attached):
##  [1] Rcpp_0.12.4      codetools_0.2-14 digest_0.6.9
##  [4] grid_3.2.5      plyr_1.8.3      gtable_0.2.0
##  [7] formatR_1.3     magrittr_1.5    evaluate_0.8.3
## [10] scales_0.4.0    stringi_1.0-1   rmarkdown_0.9.5.9
## [13] labeling_0.3    tools_3.2.5    stringr_1.0.0
## [16] munsell_0.4.3   yaml_2.1.13     compiler_3.2.5
## [19] colorspace_1.2-6 htmltools_0.3.5
```