DataMineIt℠

WHEN YOU NEED TO KNOW℠

DataMineIt Tackles Big Data using SAS®

Why wait over 21.5 hours for Proc SurveySelect when DataMineIt bootstraps in under 80 seconds?*

NEW! – even faster, proprietary versions of OPDY and OPDN, the fastest SAS® algorithms published in peer reviewed statistics journals for conducting Bootstraps, Permutation tests, and Sampling With and Without Replacement (download publications by J.D. Opdyke, President, DataMineIt, at http://www.DataMineIt.com/DMI_publications.htm).

• FAST: Orders of Magnitude Faster than SAS® Procs

OPDY_Boot_FT1 and OPDN_Perm_FT1 are modular, compiled SAS® Macros that run exactly as do OPDY and OPDN (but even faster). On large datasets, which is the only time that speed and scalability matter, OPDY_Boot_FT1 executes bootstraps over 990x faster than the relevant "built-in" SAS procedure (Proc SurveySelect). Similarly, OPDN_Perm_FT1 executes permutation tests over 530x faster than Proc SurveySelect, over 400x faster than Proc NPAR1WAY (which crashes on datasets/strata less than a tenth the size of those OPDN_Perm_FT1 can process), and over 5,970x faster than Proc Multtest (**that's over 7 days vs. under 2 minutes**).

• AFFORDABLE: Only Base SAS® is Required

• SCALABLE: Linear Runtime

Both OPDY_Boot_FT1 and OPDN_Perm_FT1 are truly scalable: their time complexity is linear, which is not the case for the relevant SAS® Procedures.

• ROBUST: Theoretically Unlimited Dataset Size

The storage complexity (only memory, no I/O) of the algorithm is linear in the number of records in the largest stratum, not the size of the dataset, so the algorithm can handle theoretically unlimited dataset size with any number of strata. The SAS® Procs either crash, or become prohibitively slow as dataset/strata sizes increase.

• GENERALIZABLE: Multivariate Regression

Both algorithms are very generalizable. DataMineIt can modify OPDN_Perm_FT1 to conduct permutation tests using any sample statistic, and for **multivariate regression**, DataMineIt has modified versions of OPDY_Boot_FT1 available to users for performing bootstraps on **econometric models**.

CONTACT: Please contact J.D. Opdyke, President, DataMineIt, JDOpdyke@DataMineIt.com or 617-943-6463 for more information about how DataMineIt can effectively and efficiently leverage SAS® for the "big data" challenges your enterprise faces. ***(.log files upon request)**