README for Fidelity July 25, 2016

- 1. The following data sets can be used for performance testing of the MADLib logistic regression algorithm:
- higgs 1e7 1e2
- higgs_1e6_1e2
- higgs_1e8_1e2
- Higgs_1e7_1e1

For example, higgs_1e7_1e2 means: 1e7 (10M) rows and 1e2 (100) features.

- 2. In order to create the tables in the database, please do:
- gunzip -c higgs_1e6_1e2.sql.gz | psql
- 3. The query to run is logreg_perf.sql and is located on the same Google drive as the data sets.
- 4. The following results are for MADlib logistic regression on a Pivotal DCA v1 half-rack with GPDB 4.2.7.1 with 8 nodes and 6 segments per node:

GPDB	#/rows	#/features	#/groups	Runtime (sec)
Baseline	10M	100	1	70.6
#rows (small)	1M	100	1	11.2
#rows (large)	100M	100	1	704.9
#features (small)	10M	10	1	8.5

When these tests were run, there were no other workloads in the DCA.

Frank McQuillan
MADlib Product Manager
fmcquillan@pivotal.io