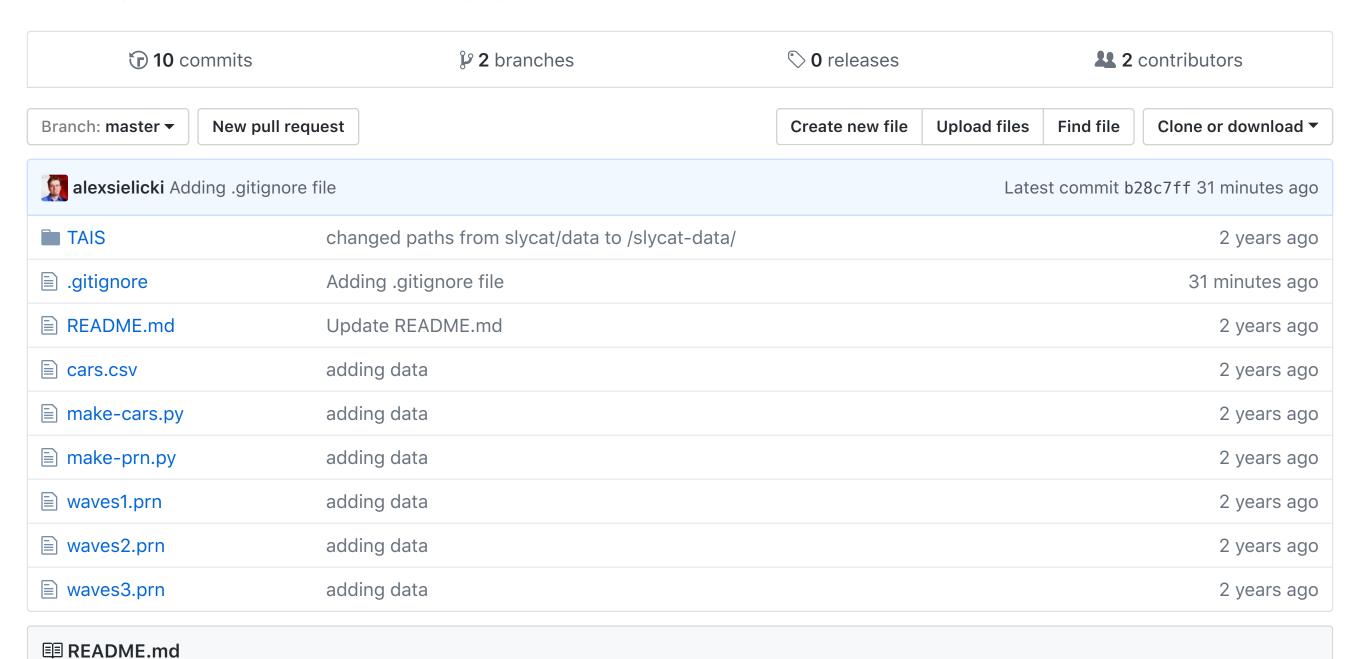
sandialabs / slycat-data

A directory of sample data that can be used by slycat



Slycat-data

A directory of sample data that can be used by Slycat web-based ensemble analysis

Overview

The following datasets are included with Slycat for the tutorials and for regression testing.

cars.csv

This was the 1983 ASA Data Exposition dataset. The dataset was collected by Ernesto Ramos and David Donoho and contains a label plus 8 variables for 406 different cars. The data contains NaNs in several records.

The original cars.data archive was retrieved from StatLib, the Datasets Archive located at http://lib.stat.cmu.edu/datasets

The archive was expanded with

\$ sh cars.data

Then, the cars.csv file was extracted from cars.names and cars.data using

\$ python make-cars.py > cars.csv

waves1.prn, waves2.prn, waves3.prn

These are timeseries data synthesized using the make-prn.py script and compatible with PRN files generated by electrical simulation codes.

##TAIS

###Taylor Anvil Impact Scenario (TAIS) SIERRA/SM CATALYST DAKOTA.

- SIERRA/SM CATALYST DAKOTA ENSEMBLE ANALYSIS of an Oxygen Free High Conductivity (OFHC) Copper Cylinder of Length 2.54 cm and Diameter 0.762 cm with initial velocity of 190 m/sec impacts a rigid wall.
- A Johnson-Cook inelastic constitutive law was used with the finite element analysis code, SIERRA/SM (i.e., "presto"), to numerically predict the response and final deformed shape.
- The Dakota parameter sensitivity study considered four parameters of the Johnson-Cook constitutive law, AJO, BJO, NJO, and BETA (the fraction of plastic work converted to heat).