Topic:

Storm: Event stream processing

Gist of the project:

I will use Apache storm/spark streaming to process a live input stream

The live input stream:

[Real Time Travel XML Feed](https://www.massdot.state.ma.us/feeds/traveltimes/RTTM_feed.aspx): https://www.massdot.state.ma.us/feeds/traveltimes/RTTM\_feed.aspx

Massachusetts department of transportation’s real time highway feed (which is updated every minute) and provides for I-95,I-93, Route 3

* travel times
* active/inactive status of highways
* speed
* roadway events like construction/accidents

I will process this real time information with spark streaming/storm. Then I will display this real time information on a web page using d3 geo projections.

The web page will show following information on the map (for each of the 3 highways):

* whether the highway is congested/not congested.
* Whether it is active/inactive
* Whether traffic is going up/going down in the last hour
* what was the peak traffic time in the last 24 hrs for that highway

I will use mllib to predict for each of the 3 highways:

- what will be the traffic in the next 1 hr