Events CSV (events-csv) TODO

* NOKB the “space-separated parameter transmission” -> csv.
* Rename https://kb.novaordis.com/index.php/Bash\_Environment\_Variables “Bash Environment Variables” to “Bash Built-in Variables”
* Understand single quoted and double quoted arguments passed down to the Java level.
  + Experiment with single quotes and double quotes to a Java process
  + Come up with the best way to handle it.
  + Encapsulate in bash code and place it in <https://kb.novaordis.com/index.php/Bash-wrapper-functions>
  + Document it and link it from <https://kb.novaordis.com/index.php/Bash_Command_Line_Evaluation_Process>
  + Apply it to CSV so csv -d --from '09/22/17 12:03:03' -o 45, 540 ./metrics.csv sends the timestamp as a unit all the way to Query.fromArguments()
  + Continue with TimeQueries.
* **Time Queries (--from, --to)**
  + Consider whether to allow for both --from=’…’ and --from ‘…’.
  + Return to QueryTest. fromArguments\_TimeQuery()
  + Header handling – should be keep track of the last header, so we have more info about the timed events, or the self-contained information is sufficient.
  + The timestamp should be handled in a central location, probably in nu. Hook up with “Timestamp”.
  + A time query should be pushed into the parser’s API, because we can optimize by not parsing complex events if they do not fall within the time window.
* **Workflow**

csv headers --last 'jhq0[1,4].\*mp-grams.\*onsumerCount' ./metrics.csv

csv --from <timestamp handled in a central location> --to <> -o <id-corresponding-to-mpgrams-before>, <id-corresponding-to-mpgrams-after>, …. <file>

With this I get the differences between active and standby and back during a failure event, and I can decide whether HA Franklin works.

* CSV vs Output  
  + CVSFormat, CVSFormatter –how those match with what’s now in Output.
* **CSV output in “processing” and “CSV”.** There is code that deals with CSV output both in events-processing/output and in the events-csv. Unify, one set of tests.
* **Reconcile ‘processing’ OutputFormat and ‘CSV’ CSVFormat,** when they are used together.
* **Databot has AsynchronousCsvLineWriter**, which also uses CSVFormatter. Reconcile.
* in-line graph