jq is a lightweight and flexible command-line JSON processor. It can make processing and viewing json significantly easier. To make desirable functions easier, this repository has a directory called jq that contains a bunch of common queries, that can all be invoked by jq -f jq/<filename>.jq. Below is a description of some of them.

Expand Strategies (expand_strats.jq)

This filter takes as input an egta simulation spec file, except in assignment instead of a list of strategies, the input is a dictionary of strategy to count. This makes it much easier to generate simulation spec files that have a large number of one type of agent. An example input looks like:

Social Welfare (social_welfare.jq)

This filter takes as input an observation file (or sequence of them), and outputs the social welfare (sum of all of the player payoffs) of each observation.

Role Strategy Payoffs (role_strat_payoffs.jq)

This filter takes as input an observation and returns an object mapping roles to strategies to average payoff for that role strategy pair. An example output looks like:

Merge Payoffs (merge_payoffs.jq)

This filter takes as input an array of observation files (or the standard output with the slurp (-s) option, and merges them into one observation file with the average payoff for each player. Alternatively, one can group observations together, in which case this can be used somewhat like numsims to condense input.