exp:expgraphqlbench

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https://doc.exponential.earth/learninminutes/exphelp/viewer/examples/commands/expgraphqlbench.md

Measure the speed of the GraphQL API against decision 18: cached GET, 304, cached POST, a cached answer through the kernel and an uncached query, N requests each, with median, p95 and max.

Script `bin/php/expgraphqlbench.php`, code in `kernel/private/classes/commands/expgraphqlbench.php`. Run it from the installation root, as the user the web server runs as:

Shell

```
./console exp:expgraphqlbench --help
./console exp:graphql:bench --help
php bin/php/expgraphqlbench.php --help
```

Help text

```
Measure the speed of the GraphQL API against decision 18
Sends the requests of each row one after the other to an end point, --requests times each
(after two that warm it up), --runs times, and prints the median, p95 and max of every row:

  get       a cached persisted query, GET ?id=          (answered before the kernel starts)
  304       the same with If-None-Match
  post      a cached persisted query, POST JSON {id}    (answered before the kernel starts)
  kernel    a cached persisted query as a form POST, which starts the kernel (what the first
            request of new credentials costs)
  uncached  the text of --query-file as an ad-hoc POST (never cached)

Every cached answer must come within 33 ms (the hard limit, on every request); the targets are
20 ms, then 13 ms, for the median and the p95. Uncached answers are measured, without a limit.
A time runs from the request being sent to the last byte of the answer (one connection for all,
so the TLS handshake is not in it). An OAuth token or a personal API key is read from the
environment variable
```

Options

Option	Value	Help
`--url`	required	the end point, e.g. https://example.com/api/graphql
`--id`	required	the name or SHA-256 of the persisted query to measure
`--variables`	required	the variables of the query, as JSON
`--query-file`	required	a .graphql file with the text of the query, for the uncached row
`--requests`	required	requests per row and run (default 200)
`--runs`	required	how often every row runs (default 3)
`--rows`	required	the rows to run, comma separated: get,304,post,kernel,uncached (default all)

Option	Value	Help
`--siteaccess-header`	required	send X-Siteaccess with this siteaccess
`--insecure`		do not check the TLS certificate (a test server of your own)
`--format`	required	text (the default) or json

Read from the option definitions in the code (`startup()`, `getOptions()`, `options()` or `ezcConsoleOption`). Every script also takes the standard options of the script framework (`--help`, `--siteaccess`, `--debug`, `--quiet`, `--allow-root-user` ...).

Related

- All console commands

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