# ProCKSI - Bug #76
## Session files are not thread safe.

06/03/2008 12:35 PM - Paweł Widera

| | | | | |
|---|---|---|---|---|
| **Status:** | Closed | | **Start date:** | |
| **Priority:** | Normal | | **Due date:** | |
| **Assignee:** | Anonymous | | **% Done:** | 0% |
| **Category:** | ProCKSI | | **Estimated time:** | 0.00 hour |
| **Target version:** | | | | |
| **Resolution:** | fixed | | | |

**Description**

When the user executes one long operation (e.g. upload of structures from a zip file) and before it is finished executes another one (e.g. extraction of chains), the state of the session file gets corrupted (not having a consisted state any more). That results in files on disk without the reference in the session and vice versa.

## History

**#1 - 04/08/2008 10:07 AM - Anonymous**

*- Status changed from New to In Progress*

**Proposed solution:**

- New action is executed
- Script with all its functionality is locked
- Temporary output page ("waiting"/"refresh") is displayed, which prevents the browser to loose the connection
- Script is daemonized into the background
- Errors/warnings/notices in the background are stored in the session
- After execution in the background has finished, the script with all functionality is unlocked
- When the user refreshes/redisplays the page, the updated information incl. errors/warnings/notices are displayed
- When the user starts a new action, all old errors/warnings/notice are cleared

**Application:**

- NewExperiment: DatasetManager (upload, unzip, extract)
- MyExperiment: AnalysisManager (all actions)

**#2 - 06/03/2008 12:35 PM - Anonymous**

*- Status changed from In Progress to Closed*

*- Resolution set to fixed*

(In r690) f - Prepare/analyse big datasets (fixes #39 and #76):   * analysis.cgi

  f - similar to dataset.cgi: send time consuming analysis process into background; show/refresh "waiting/processing" page in the foreground (browser)
  * dataset.cgi

   b - end backgrounding when errors have occurred

f - Scheduling from within the workbench and the command line:   * general in admin/ directory:

  c - uses Messages objects for messages collection/output (fixes #4)

  f - scheduling can be set into "full" or "secure" administration mode, whereas "secure" does not allow certain actions, e.g. cancel/delete a running task/request   * tasks.cgi

   f - restart tasks that have finished with errors

   f - cancel running tasks if administration mode is "full"

   f - delete tasks is implemented but not available in the browser as it can delete the "chains" directory when deleting a "structures" or "contacts" task

   c - createOutput() => addInputData()   * experiments.cgi

f - can potentially handle multiple experiments, thus experiment.cgi => experiments.cgi

f - delete experiment, which deletes all data and meta-data from disk and database and logs user automatically out as the user is only logged in for ONE experiment    * Scheduling/Tasks.pm

f - restart() sets status to "prepared" (P) and re-initialises the times

f - validates matrices when finishing a task and only registers valid ones into the database


e - CGI/Templates

first steps towards more/better reusable classes for CGI/Templating

c - CGI.pm => CGI/General.pm

f - TEST: CGI/Cache.pm, which allows caching HTML from templates to disk

f - TEST: CGI/Process.pm, which allows backgrounding processes, especially useful for big datasets.


BUGFIXES:

b - online.hmtl: incl. server name in link for "New Experiment" button

b - [[TypedVectorMatrix]].pm: throw Exception::InvalidMatrix if target identity (first row, first column) is different from target-target comparison (first row, second column)

b - experiment|dataset|tasks.cgi: distinguish between 'execute' and 'cmd' actions

b - [[DaliLite]]: link to error files instead of linking to somewhere on the HTML page

b - [[MaxCMO]]: add raw results before sequence comparison in output

b - myexp.cgi: delete session before preparing output in logout()

b - [[FormSpecial]].js: disable reference checkbox if all al other checkboxes are disabled

b - HTML: Phylipp => PHYLIP (fixes #83)

c - HTML: help (closes #84)


GENERATLISATION:

c - CONF_MAIN => CONF

c - CONF_SETTINGS => SETTINGS