

## ProCKSI - Bug #76

### Session files are not thread safe.

06/03/2008 12:35 PM - Paweł Widera

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Anonymous	<b>% Done:</b>	0%
<b>Category:</b>	ProCKSI	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Resolution:</b>	fixed		
<b>Description</b>			
<p>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.</p>			

### 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/redispays 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.html: 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 other checkboxes are disabled

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

c - HTML: help (closes #84)

GENERATLISATION:

c - CONF\_MAIN => CONF

c - CONF\_SETTINGS => SETTINGS