

ProCKSI - Enhancement #34

Scheduling: queue vs. cron job

08/02/2007 09:16 AM - Anonymous

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:	Anonymous	% Done:	0%
Category:	ProCKSI/scheduling	Estimated time:	0.00 hour
Target version:	9.0		
Resolution:			
Description			
<p>- Current State: The complete scheduling is done by cron jobs including the entire post-processing, e.g. uncompressing the TGZ output, registering results, finishing tasks/requests.</p> <p>- Potential Problem: The cron jobs start at fixed times, e.g. every 5 minutes, check the status and react accordingly. If the post-processing takes longer than the interval between two cron job starts, two or more cron jobs might run at the same time concurrently.</p> <p>- Possible Solutions:</p> <ol style="list-style-type: none">1. Lock the program that is being started by a cron job, e.g. <i>check_tasks.lock</i>, and don't start a new cron job before this lock file has been deleted again at the end of the first cron job's run.2. Do not perform any "real tasks", e.g. post-processing, from within the cron job, but rather submit a new job to a special <i>administration</i> queue. Introduce new task states for post-processing as to exclude the job from being submitted multiple times into the queue within multiple cron job runs.3. Implement a daemon that controls all activities instead of running several cron jobs potentially in parallel. Possible candidate: <i>Schedule::Cron</i>			

History

#1 - 08/02/2007 09:16 AM - Anonymous

- **Temporary Solution:** Solution 1 is being implemented.
- **Final Solution:** A combination of Solution 2 and 3 will be favourable