

Tool development

Reaper: A lightweight file monitor

Dagmara Gotlib¹

¹Bioinformatics Core Facility, Sahlgrenska Academy, University of Gothenburg, Box 115, 405 30, Sweden.

Summary

When performing mass spectrometry analyses, large amounts of data is produced. As the computer which performs this analysis has limited storage, it is of great interest to move the files to another storage as soon as possible. The Reaper monitors a specific directory where the files are created and updated, and with a user defined time unit checks for changes in that directory. When a file hasn't changed in size by the third check, it is then copied to the appropriate location. The destination directories are named after the year and month of the file (YYMM) and can be prefixed with a user defined string to further aid in the organisation of the files. It is also possible to filter the monitoring of files by file type. A log detailing the copying and a sha256 verification of the files is also created with back-ups on a weekly basis.

Availability: upon request

Contact: marcela.davila@gu.se

1 Future work

Implementation of a separate tab with a table where the “from” directory is compared to a “to” directory and its subdirectories. This allows for an overview and a visual, and immediate, confirmation of the files already copied and their final destination. Moreover, Reaper will allow for selection of “parent” files in order to perform a batch deletion straight from the application (rather than manually).

Availability and Requirements

Project name: Reaper

Project home page: <https://github.com/bcfgothenburg/SSF>

Operating system: Windows

Programming language: python

Other requirements: Not applicable

License: GNU General Public License, version 3.0 (GPLv3).

Any restrictions to use by non-academics: None (except the ones stated in GPLv3)

Funding

This study was supported by the Swedish Foundation for Strategic Research (RIF14-0081). The funding body did not play any role in the design of the study, or collection, analysis, or interpretation of data, or in writing the manuscript.