# Running the ScanLag process in unix

The bash script for scanning the colonies is scan_script_run.sh . The process relates on the following seven parameters:

Directory
this is the directory in it the process will save the images. When specifying it the directory must exist.

Waiting time (in minutes)
when starting the process scanners will scan one time for capturing the background and then wait, or "sleep" for a given number of minutes.

Number of scans and Interval between two scans (in minutes)
after waiting the wanted number of minutes the each scanner will scan the plates as many times as wanted. The time between each scan (for the same scanner) will be as provided in the interval parameter.

File prefix
The images will be save as prefix_ scanner_YYYYMMDD_HH:MM.tif

Scanners list
at the beginning of the process, after specifying the above parameters, you will have to choose the scanners to work with. The process will populate a list of the relevant scanners (i.e. the scanners that return from the scanimage -L command and have a name specified in the udev rules) and let you choose the wanted scanners.

Emails list
when a scanner fails an error message is being sent to the mails exists in this list.

There are two ways to run the process: using a configuration file or by entering the needed parameters at the beginning of the run.

The configuration file
for using a configuration file, use the following command:
bash scan_script_run.sh <configuration file>
Note that if the configuration file is in the same directory as the running script, full path to the file is not needed, otherwise specify it. Also note that in the configuration file the SCANNERS parameter value must be **ALL** or not being specified at all. The included file scan.cfg is an example for a configuration file. The relevant keys for the configuration file are:
DIRECTORY, WAIT_TIME, INTERVAL, NUMBER_OF_SCANS, FILE_PREFIX, SCANNERS, MAILS

Running without a configuration file
When running the process without a configuration file it will guide the user how to enter the relevant data at the beginning of the run.