```
=== readme-prelim01.htm ===
Please Verify you can do the filtering/analysis with with the excel file created so far.
And maybe provide some example results.
You should be able to open 1629104-excel.xlsx in excel directly, without opening the csv at all.
The csv file would eventually grow to over 122x10<sup>^</sup>6 cassettes, and then be unwieldly or impossible to do in excel.
At that point, we'll have to do the equivalent analysis with additional command-line scripts.
Note: For tricks to get excel to open csv with millions of rows
see https://www.masterdataanalysis.com/ms-excel/analyzing-50-million-records-excel/
This folder contains the output for 1629104 \ (\sim 1.6 \times 10^6)
cassettes, in 3 file formats: csv, xlsx (excel) and gnumeric.
That is, the exact same date should be in all 3 1629104 files.
-rw-rw-r-- 1 aeh-group aeh-group 158151200 Apr 25 11:34 1629104.csv
-rw-rw-r-- 1 aeh-group aeh-group 89673482 Apr 25 11:46 1629104.gnumeric
-rw-rw-r-- 1 aeh-group aeh-group 84948352 Apr 25 11:54 1629104-excel.xlsx
-rw-rw-r-- 1 aeh-group aeh-group
                                    8860 Apr 25 12:08 readme-prelim01.htm (this file)
From the output of htop (below), so far it looks like the bottleneck is cpu, not ram. It may also be i/o.
We'll try adding the onecsv functionality to mcff2.c to try to reduce cpu usage, context-swaps, and generally streamline things.
    [||||||||||||100.0%]
                                                  5 [|||||||100.0%]
                                               4G/15.7G]
                                 21.5M/36.1G]
                                               Uptime: 19 days, 19:06:58
  PID USER
               PRI NI VIRT
                             RES
                                   SHR S CPU% MEM%
                                                     TIME+ Command
                                   3244 R 83.3 0.0 0:00.17 htop --sort-key=PERCENT_CPU
25515 aeh-group 20
                    0 24052
                             5944
15718 aeh-group 20
                     0
                      37320
                             13632
                                   5564 R 16.7
                                               0.1 0:00.10 python3 ./onecsv9.py -
18850 aeh-group
                20
                     0
                      36236
                             12740
                                   5564 R 16.7 0.1
                                                    0:00.11 python3 ./onecsv9.py
21236 aeh-group
                20
                     0
                       35648
                             2208
                                   5752 R 16.7 0.1 0:00.10 python3 ./onecsv9.py -
25212 aeh-group
                20
                     0
                       15520
                             9960
                                   2040 R 16.7 0.1 0:00.05 mcff -v -n 001637389>GGAAACAAaaggaug
                                   1668 R 16.7 0.1 0:00.02 mcff -v -n 001637548>GGAAUACCaaggaug
25451 aeh-group 20
                     0
                      14992
                             9084
25453 aeh-group
                20
                     0
                          O
                               Θ
                                     0 R 16.7 0.0 0:00.02 mcff -v -n 001637599>GGAAUUUCaaggaug
                                   2040 R 16.7 0.1 0:00.07 mcff -v -n 001637589>GGAAUUACaaggaug
1668 R 16.7 0.1 0:00.01 mcff -v -n 001637593>GGAAUUCGaaggaug
25463 aeh-group
               20
                     0
                      15520
                             9960
25505 aeh-group
               20
                     0 14860
                             9080
25518 aeh-group 20
                     0 14860
                             9104
                                   1684 R 16.7 0.1 0:00.01 mcff -v -n 001637612>GGACAAGUaaggaug
```

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