## Alt-500-Test-Harness.rmd

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Title: Alt-500-Test-Harness.rmd

## **Summary:**

Libraries:

```
knitr::opts_chunk$set(echo = TRUE)

Libraries = c("readr")

# Install if not present
for(p in Libraries){
    if(!require(p, character.only = TRUE))
        install.packages(p)
    library(p, character.only = TRUE)
}
```

```
start_time <- Sys.time() # Start timer

prot_list <- list.files(pattern = ".txt$")
test_file_name <- "seven_class_500_test_harness.lst"

for (i in 1:length(prot_list)) {
    line_count <- length(readLines(prot_list[i]))
    print(prot_list[i])
    for (j in 1:500) {
        choose_index <- floor(runif(1, min = 1, max = line_count))
        #print(paste(choose_index, ",", sep = ""))
        one_line <- read_lines(prot_list[i], skip = choose_index, n_max = 1L)
        write_lines(one_line, path = test_file_name, sep = "\n", append = TRUE)
   }
}</pre>
```

```
## [1] "protein_class_Ctrl.txt"
## [1] "protein_class_Ery.txt"
## [1] "protein_class_Hcy.txt"
## [1] "protein_class_Hgb.txt"
## [1] "protein_class_Hhe.txt"
## [1] "protein_class_Lgb.txt"
## [1] "protein_class_Lgb.txt"
## [1] "protein_class_Mgb.txt"
end_time <- Sys.time() # End timer
end_time - start_time # Display time</pre>
```

## Time difference of 8.309269 secs

## Sys.info() [c(1:3,5)]

```
##
## sysname
##
##
release
##
## "4.15.0-46-generic"
##
version
## "#49~16.04.1-Ubuntu SMP Tue Feb 12 17:45:24 UTC 2019"
##
machine
##
##
```

## sessionInfo()

```
## R version 3.4.4 (2018-03-15)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Linux Mint 18.3
##
## Matrix products: default
## BLAS: /usr/lib/libblas/libblas.so.3.6.0
## LAPACK: /usr/lib/lapack/liblapack.so.3.6.0
##
## locale:
## [1] LC_CTYPE=en_US.UTF-8
                                  LC_NUMERIC=C
## [3] LC_TIME=en_US.UTF-8
                                  LC_COLLATE=en_US.UTF-8
## [5] LC MONETARY=en US.UTF-8
                                  LC MESSAGES=en US.UTF-8
## [7] LC_PAPER=en_US.UTF-8
                                  LC NAME=C
## [9] LC_ADDRESS=C
                                  LC_TELEPHONE=C
## [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
## attached base packages:
## [1] stats
                graphics grDevices utils
                                              datasets methods
##
## other attached packages:
## [1] readr_1.3.1
## loaded via a namespace (and not attached):
## [1] Rcpp 1.0.0
                       crayon 1.3.4
                                       digest 0.6.18
                                                        R6 2.3.0
                                       pillar_1.3.1
                       evaluate_0.12
## [5] magrittr_1.5
                                                       rlang_0.3.0.1
## [9] stringi_1.2.4
                       rmarkdown_1.11 tools_3.4.4
                                                        stringr_1.3.1
## [13] hms_0.4.2
                       xfun_0.4
                                       yam1_2.2.0
                                                        compiler_3.4.4
## [17] pkgconfig_2.0.2 htmltools_0.3.6 knitr_1.21
                                                        tibble_1.4.2
```

EOF