Cran download logs aggregation time summary

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CONTENTS

Figure 1: Powered by ! https://github.com/MarcinKosinski/AlmostBigData

CHAPTER

ONE

DOWNLOADING DATA

Syntax used for downloading, unzipping and merging data is available in section A.1. More or less downloading looked like this and took about: 1783.13 s

```r
start <- as.Date("2012-10-01")
today <- as.Date("2014-05-10")
all_days <- seq(start, today, by = "day")
year <- as.POSIXlt(all_days)$year + 1900
urls <- paste0("http://cran-logs.rstudio.com/", year, "/", all_days, ".csv.gz")

destdir <- "D:/bd1/AlmostBigData/cran-logs/"
n <- length(urls)
i = 1
for (i in 1:n) {
    destfile <- stri_paste(destdir, as.character(all_days[i]))
    download.file(urls[i], destfile)
}
```

Unzipping files syntax looked like this and took:

```r
lok <- "D:/bd1/AlmostBigData"
gzpath <- character(n)
i <- 1
for (i in 1:n) {
    gzpath[i] <- paste(lok, "/cran-logs", all_days[i], sep = "")
}
install.packages("R.utils")
library(R.utils)
for (i in 1:n) {
    gunzip(gzpath[i], destname = paste(gzpath[i], ".csv"), remove = TRUE)
}
```

Converting CSV files with proper delimiter syntax looked like this and time spent was:

```r
for (i in 1:n) {
    write.csv2(read.csv2(paste(gzpath[i], ".csv"), sep = ","), paste(gzpath[i], "_new.csv"))
}
```

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CHAPTER

TWO

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SAS PATH

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Syntax used for importing, merging and summarizing data is available in chapter B.

2.1   Importing data

Importing `csv` files into **SAS** syntax looked like this and took: average 0.2 s for each file, that gives **2 min 40 S** (Stoper method.)

```
proc import datafile='D:/bd1/AlmostBigData/cran-logs2012-10-01 _new.csv'
out=CR.cran1 dbms=csv replace;
      delimiter = ';';
      getnames=yes;
      run;


...


proc import datafile='D:/bd1/AlmostBigData/cran-logs2014-05-09 _new.csv'
out=CR.cran586 dbms=csv replace;
      delimiter = ';';
      getnames=yes;
      run;
```

2.2   Merging files

Merging all those files syntax looked like this and time expired was:

```
data Cr.DANE;
set
CR.cran1,
CR.cran2,
....
CR.cran586;
run;
```

Time expired:

```
NOTE: The data set CR.DANE has 41611796 observations and 11 variables.
NOTE: DATA statement used (Total process time):
      real time           1:22.02
      cpu time            11.94 seconds
```

2.3   Summary for each variable

Summaries of each variable syntax looked like this and time expired was:

```
12    proc summary data=Cr.DANE2 print;
13    class package;
14    run;

NOTE: There were 41611796 observations read from the data set CR.DANE2.
NOTE: PROCEDURE SUMMARY used (Total process time):
      real time            29.82 seconds
      cpu time             20.06 seconds


15
16    proc summary data=Cr.DANE2 print;
17    class version;
18    run;

NOTE: There were 41611796 observations read from the data set CR.DANE2.
NOTE: PROCEDURE SUMMARY used (Total process time):
      real time            31.23 seconds
      cpu time             20.18 seconds


19
20    proc summary data=Cr.DANE2 print;
21    class r_arch;
22    run;

NOTE: There were 41611796 observations read from the data set CR.DANE2.
NOTE: PROCEDURE SUMMARY used (Total process time):
      real time            30.65 seconds
      cpu time             10.12 seconds


23
24    proc summary data=Cr.DANE2 print;
25    class r_os;
26    run;

NOTE: There were 41611796 observations read from the data set CR.DANE2.
NOTE: PROCEDURE SUMMARY used (Total process time):
      real time            30.59 seconds
      cpu time             12.58 seconds


27
28    proc summary data=Cr.DANE2 print;
29    class r_version;
30    run;

NOTE: There were 41611796 observations read from the data set CR.DANE2.
NOTE: PROCEDURE SUMMARY used (Total process time):
      real time            30.56 seconds
      cpu time             10.95 seconds


31
32    proc summary data=Cr.DANE2 print;
33    class country;
34    run;

NOTE: There were 41611796 observations read from the data set CR.DANE2.
NOTE: PROCEDURE SUMMARY used (Total process time):
      real time            30.07 seconds
```

```
    cpu time             12.48 seconds
```

2.4 Sorting

Sort procedure is required that frequency table can be computed. Unfortunately it takes over 3 minutes...

```
1    proc sort data=Cr.Dane out=CR.Dane2;
2    by r_os;
3    run;

NOTE: There were 41611796 observations read from the data set CR.DANE.
NOTE: The data set CR.DANE2 has 41611796 observations and 11 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time            3:49.71
      cpu time             35.39 seconds
```

2.5 Frequency tables

2.5.1 r os

Frequency tables syntax and the time expired for `r os`:

```
    proc freq data=Cr.dane2;
    tables r_os;
    run;

NOTE: Writing HTML Body file: sashtml.htm
NOTE: There were 41611796 observations read from the data set CR.DANE2.
NOTE: PROCEDURE FREQ used (Total process time):
      real time            32.60 seconds
      cpu time             5.46 seconds
```

2.5.2 Packages

Frequency tables syntax and the time expired for `packages`, grouped by `r os`:

```
    proc freq data=Cr.dane2 page;
    by r_os;
    tables package;
    run;

NOTE: There were 41611796 observations read from the data set CR.DANE2.
NOTE: PROCEDURE FREQ used (Total process time):
      real time            53.25 seconds
      cpu time             32.46 seconds
```

CHAPTER
THREE

TRADITIONAL $\mathcal{R}$ PATH

3.1 Unmerged $\mathcal{R}$ files Path

This is processing file by file syntax. Total time of processing was 11,5 hours. Time spent on counting number of downloads packages and counting number of unique users for each day (sum of times of inner loop processing) was 11,38 hours. It means that creating other statistics and margin time was about 12 minutes.

```r
# Data frame for statistics one row <-> one file
summary <- data.frame(date = 0, number_of_different_packages = 0, number_of_different_id = 0,
    size = 0, processing_time = 0, windows = 0, linux = 0, mac = 0)
filelist.csv <- list.files(destdir, pattern = "u$", full.names = TRUE)
# Creating empty list for counting downloads of each package
statistics <- list()

numberofpackages <- 0
k <- 1
start <- Sys.time()
for (f in filelist.csv) {

    starttime <- Sys.time()

    t <- read.table(f, h = TRUE, sep = ",")
    systems <- c(m = 0, l = 0, d = 0)
    n <- nrow(t)
    number_of_different_packages <- 0
    number_of_different_id <- 0
    for (i in 1:n) {
        pi <- as.character(t[i, 7])
        if (!is.na(pi)) {
            if (is.null(statistics[[pi]])) {
                numberofpackages <- numberofpackages + 1
                statistics[numberofpackages] <- 1
                names(statistics)[numberofpackages] <- pi

            } else {
                statistics[pi] <- statistics[[pi]] + 1
            }
        }
        if (!is.na(t[i, 10])) {
            if (t[i, 10] > number_of_different_id) {
                sys <- stri_sub(t[i, 6], 1, 1)
                if (!is.na(sys)) {
                  systems[sys] <- systems[sys] + 1
                  number_of_different_id <- t[i, 10]
                }
            }
        }
    }
}
```

```
    endtime <- Sys.time()

    summary[k, 1] <- stri_sub(basename(f), 1, stri_length(basename(f)) - 1)
    summary[k, 2] <- numberofpackages
    summary[k, 3] <- number_of_different_id
    summary[k, 4] <- floor(file.info(f)$size/1000)
    summary[k, 5] <- endtime - starttime
    summary[k, 6] <- systems[1]
    summary[k, 7] <- systems[2]
    summary[k, 8] <- systems[3]
    cat(k, " ", summary[k, 5], "\n")
    k <- k + 1
}
end <- Sys.time()
```

Here are some plots presenting shaping statistics in time.

Number of packages
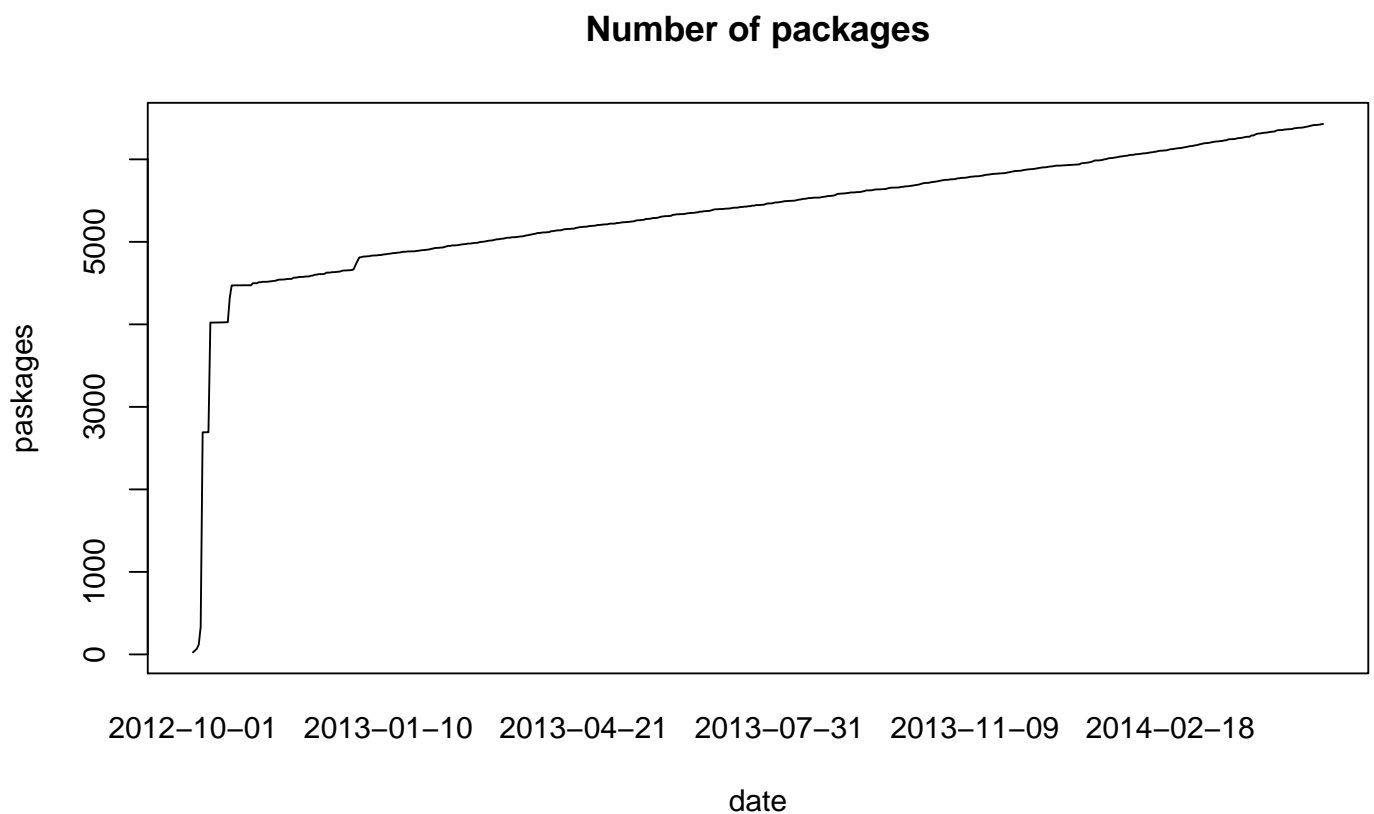
Number of users
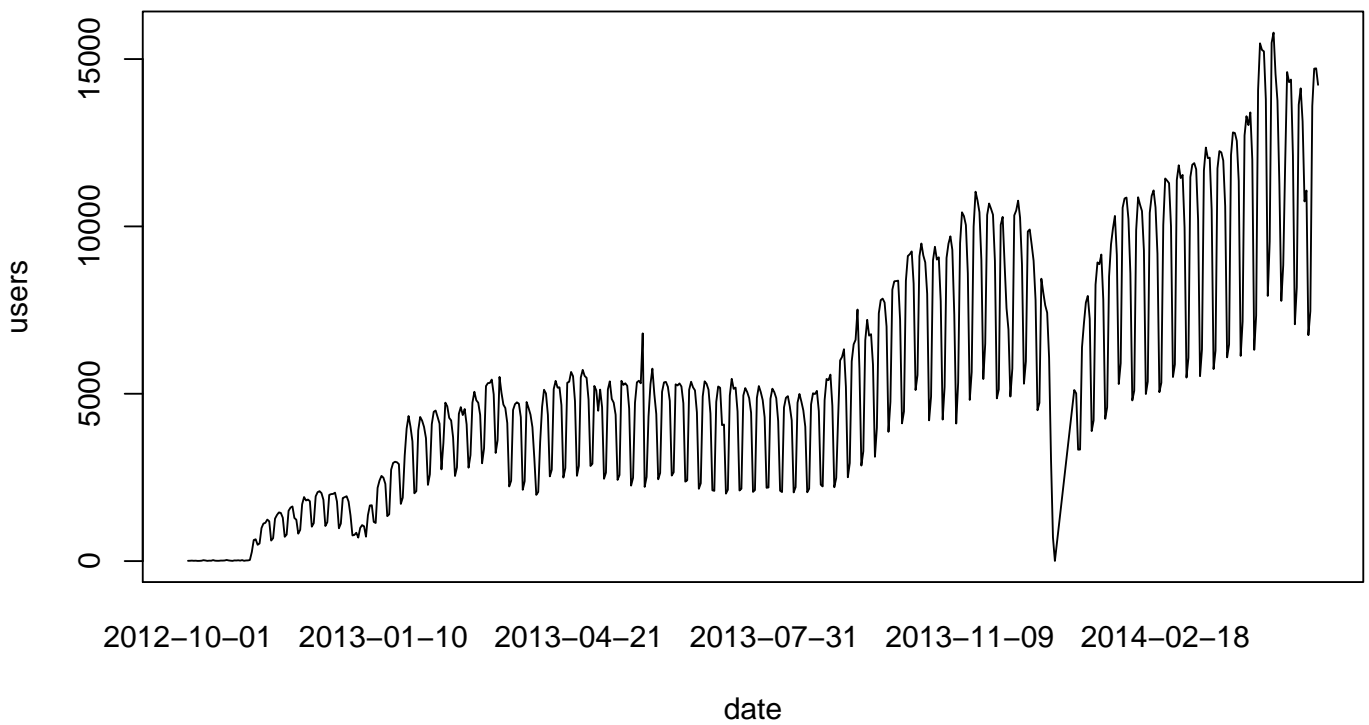
Size of files
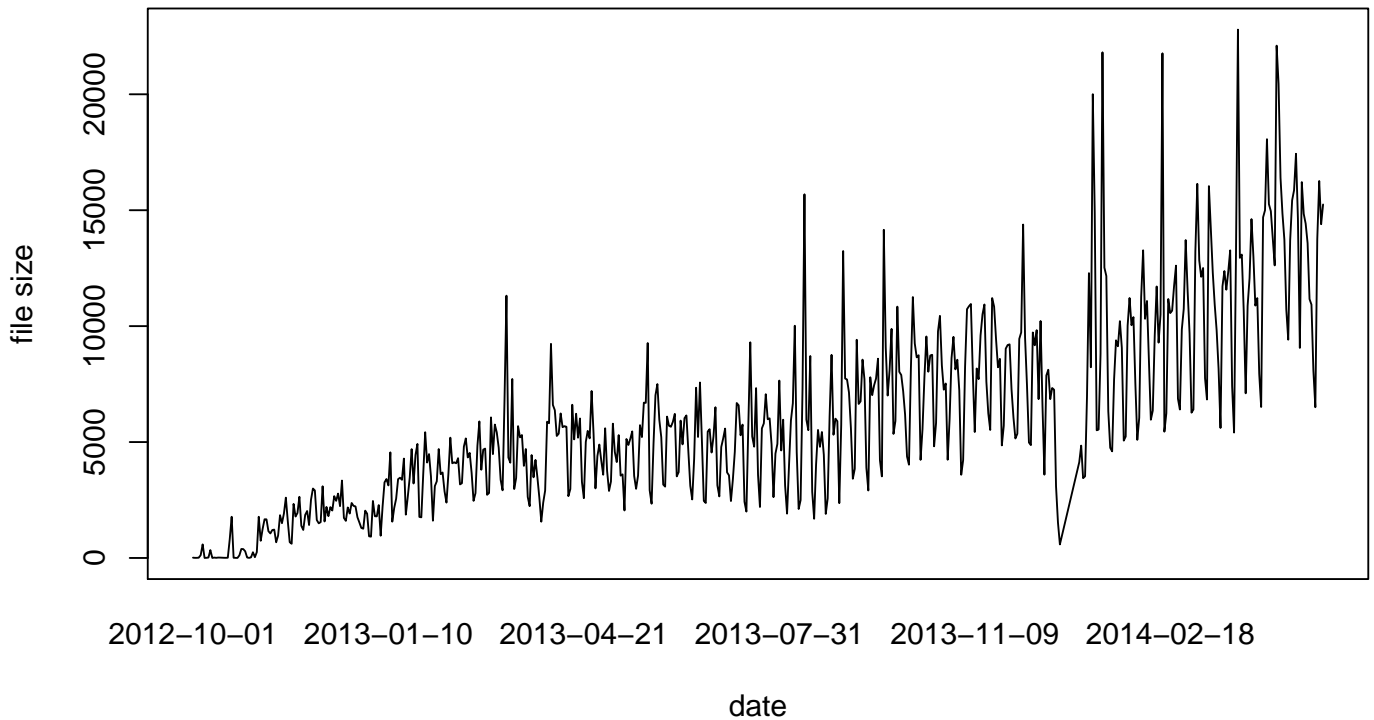
Speed of data processing time was 77 kB/s. We estimated this fitting linear model to the last plot. Ohter way to estimate this time is dividing sum of size of files by sum of processing times. Then we get 85 kB/s.

Processing time
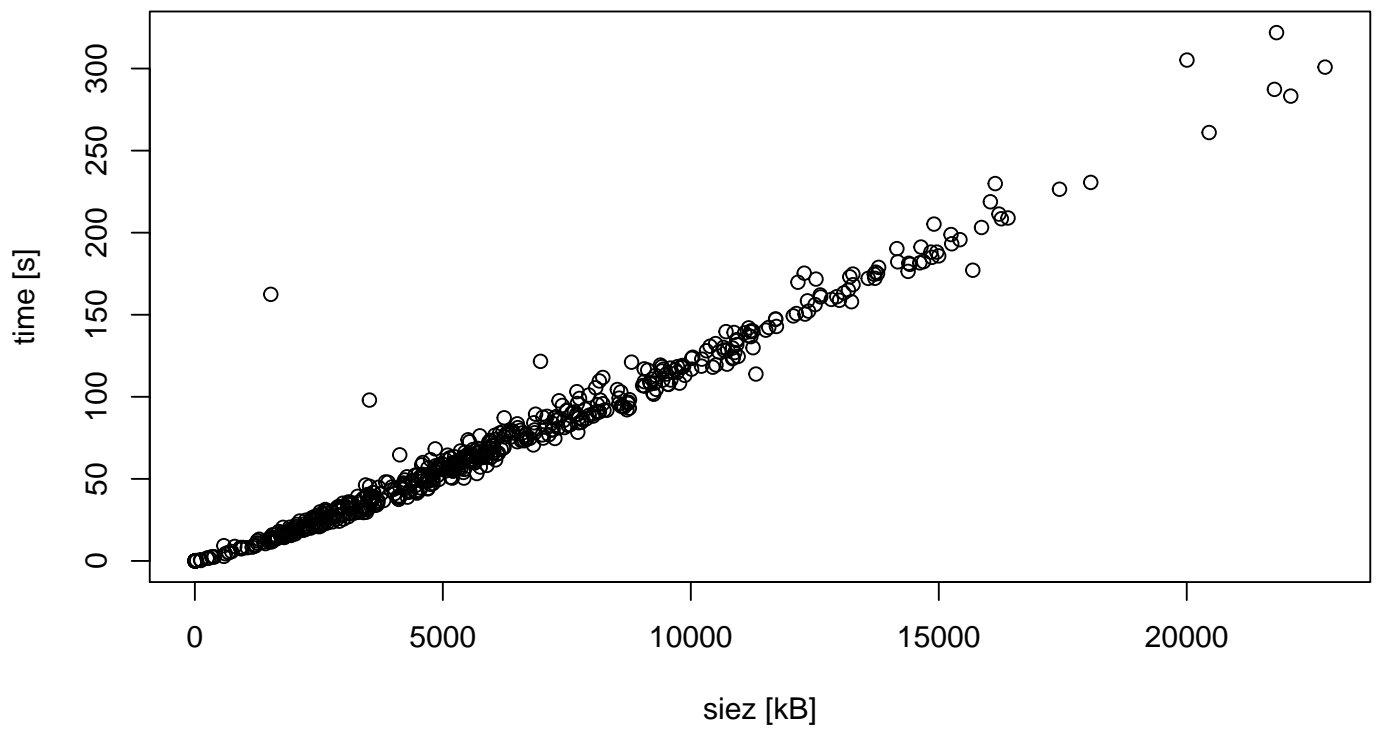
Percentage of operating systems: windows - 68%, linux - 15%, mac os - 16%
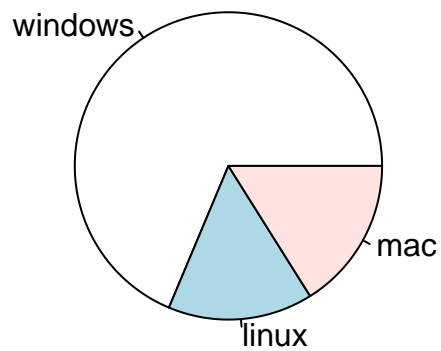
3.2   Merged $\mathcal{R}$ files Path

Merging all filles with R looked like this:

```
start <- as.Date("2012-10-01")
today <- as.Date("2014-05-09")

all_days <- seq(start, today, by = "day")
```

```r
temp_dir <- "~//BigData"
filenames <- paste0(temp_dir, "/", all_days, "_newf.csv")
for (i in 1:length(filenames)) {
    dane <- read.csv2(filenames[i])
    dane <- dane[c(-1)]

    write.table(dane, file = paste(temp_dir, "/dane.csv", sep = ""), append = TRUE, dec = ",",
        sep = ";", qmethod = "double", col.names = FALSE, row.names = FALSE)
}
```

It took around 25 mins.

3.2.1 Names

Getting all packages names, architectures kinds and operating system names was done in around 15 min using the following code:

```r
options(stringsAsFactors = FALSE)
temp_dir <- destdir <- "~//BigData"
fname <- paste(temp_dir, "/dane.csv", sep = "")

nazwy <- vector("character")

skipy <- 0
nrowsy <- 2e+06
nazwy <- character(0)
arch <- character(0)
r_os <- character(0)

ileLinijek <- 0

while (class(try({
    d <- read.csv2(fname, skip = skipy, nrows = nrowsy)
}, silent = TRUE)) != "try-error") {
    nazwy <- union(d[, 7], nazwy)
    arch <- union(d[, 5], arch)
    r_os <- union(d[, 6], r_os)
    ileLinijek <- ileLinijek + length(d[, 1])
    skipy <- skipy + nrowsy
}


nazwy <- na.omit(nazwy)
arch <- na.omit(arch)
r_os <- na.omit(r_os)
n <- length(nazwy)
a <- length(arch)
r <- length(r_os)
a_r <- data.frame(matrix(0, nrow = a, ncol = r))
rownames(a_r) <- arch
names(a_r) <- r_os


pakiety <- data.frame(rep(0, length.out = n), row.names = nazwy)
names(pakiety) <- "Krotnosci"
```

3.2.2 Getting Data

To get required data we used the following code:

```r
skipy <- 0
nrowsy <- 2e+06
while (class(try({
    d <- read.csv2(fname, skip = skipy, nrows = nrowsy)
}, silent = TRUE)) != "try-error") {
    for (j in 1:length(d[, 1])) {
        if (!is.na(d[j, 7]))
            pakiety[(d[j, 7]), ] <- pakiety[(d[j, 7]), ] + 1
    }


    skipy <- skipy + nrowsy
}
```

```r
skipy <- 0
nrowsy <- 2e+06
while (class(try({
    d <- read.csv2(fname, skip = skipy, nrows = nrowsy)
}, silent = TRUE)) != "try-error") {
    un <- unique(d[, 10])
    un <- na.omit(un)
    for (i in 1:length(un)) {
        s <- (d[d[, 10] == un[i], ][1, ])
        aa <- s[1, 6]
        rr <- s[1, 5]
        if (!is.na(aa) & !is.na(rr))
            a_r[rr, aa] <- a_r[rr, aa] + 1
    }

    skipy <- skipy + nrowsy
}
```

First took around 2 hours, and second 3 hours.

FOUR

RCPP PATH

APPENDIX

A

PREPARING REPORT

A.1   Data download, unzipp, conversion syntax

```r
start <- as.Date("2012-10-01")
today <- as.Date("2014-05-10")
all_days <- seq(start, today, by = "day")
year <- as.POSIXlt(all_days)$year + 1900
urls <- paste0("http://cran-logs.rstudio.com/", year, "/", all_days, ".csv.gz")

destdir <- "D:/bd1/AlmostBigData/cran-logs/"
n <- length(urls)
i = 1
for (i in 1:n) {
    destfile <- stri_paste(destdir, as.character(all_days[i]))
    download.file(urls[i], destfile)
}

lok <- "D:/bd1/AlmostBigData"
gzpath <- character(n)
i <- 1
for (i in 1:n) {
    gzpath[i] <- paste(lok, "/cran-logs", all_days[i], sep = "")
}
install.packages("R.utils")
library(R.utils)
for (i in 1:n) {
    gunzip(gzpath[i], destname = paste(gzpath[i], ".csv"), remove = TRUE)
}

for (i in 1:n) {
    write.csv2(read.csv2(paste(gzpath[i], ".csv"), sep = ","), paste(gzpath[i], "_new.csv"))
}
```

SAS SYNTAX

```
proc import datafile='D:/bd1/AlmostBigData/cran-logs2012-10-01 _new.csv'
out=CR.cran1 dbms=csv replace;
      delimiter = ';';
      getnames=yes;
      run;

...

proc import datafile='D:/bd1/AlmostBigData/cran-logs2014-05-09 _new.csv'
out=CR.cran586 dbms=csv replace;
      delimiter = ';';
      getnames=yes;
      run;

data Cr.DANE;
set
CR.cran1,
CR.cran2,
....
CR.cran586;
run;

proc summary data=Cr.DANE print;
class package;
run;

proc summary data=Cr.DANE print;
class version;
run;

proc summary data=Cr.DANE print;
class r_arch;
run;

proc summary data=Cr.DANE print;
class r_os;
run;

proc summary data=Cr.DANE print;
class r_version;
run;

proc summary data=Cr.DANE print;
class country;
run;
```

```
proc sort data=Cr.Dane out=CR.Dane2;
by r_os;
run;

proc freq data=Cr.dane2 page;
tables r_os;
run;


proc freq data=Cr.dane2 page;
by r_os;
tables package;
run;
```

SUMMARY STATISTICS FOR DAYS

	date	packages	users	size	processing_time	windows	linux	mac
1	2012-10-01	26	8	13	0.03125	0	6	1
2	2012-10-02	46	10	6	0.01562	2	6	1
3	2012-10-03	68	14	6	0.01562	3	6	5
4	2012-10-04	120	9	12	0.03125	3	5	1
5	2012-10-05	336	12	123	0.28125	4	6	2
6	2012-10-06	2692	5	585	2.79688	0	5	0
7	2012-10-07	2692	7	2	0.01562	0	4	2
8	2012-10-08	2692	11	7	0.03125	2	7	1
9	2012-10-09	2693	27	18	0.09375	12	10	3
10	2012-10-10	4022	19	340	2.57812	1	15	1
11	2012-10-11	4022	7	2	0.01562	0	4	2
12	2012-10-12	4022	13	16	0.12500	3	5	4
13	2012-10-13	4022	11	7	0.04688	2	7	1
14	2012-10-14	4023	29	17	0.12500	9	7	4
15	2012-10-15	4023	13	16	0.12500	3	5	4
16	2012-10-16	4024	9	12	0.07812	3	4	1
17	2012-10-17	4024	9	8	0.06250	4	2	3
18	2012-10-18	4026	16	7	0.04688	4	5	7
19	2012-10-19	4026	15	11	0.07812	5	8	0
20	2012-10-20	4319	19	804	8.84375	7	3	6
21	2012-10-21	4472	34	1777	20.46875	13	15	2
22	2012-10-22	4472	20	10	0.07812	4	12	4
23	2012-10-23	4473	13	4	0.06250	3	6	2
24	2012-10-24	4473	7	2	0.03125	1	5	1
25	2012-10-25	4473	20	115	0.73438	2	11	6
26	2012-10-26	4473	18	389	2.43750	6	6	6
27	2012-10-27	4474	24	383	2.46875	6	12	6
28	2012-10-28	4474	15	289	1.79688	2	10	2
29	2012-10-29	4474	29	20	0.15625	4	10	14
30	2012-10-30	4474	9	5	0.04688	2	4	3
31	2012-10-31	4474	19	26	0.18750	7	7	5
32	2012-11-01	4499	20	247	1.67188	6	9	5
33	2012-11-02	4499	32	34	0.25000	13	10	7
34	2012-11-03	4499	271	253	1.76562	205	29	26
35	2012-11-04	4510	630	1777	14.68750	444	72	90
36	2012-11-05	4511	651	742	5.71875	479	41	111
37	2012-11-06	4516	487	1255	11.00000	263	150	53
38	2012-11-07	4516	526	1669	14.12500	336	99	71
39	2012-11-08	4516	986	1666	13.84375	721	138	93
40	2012-11-09	4518	1121	1157	8.40625	697	257	144
41	2012-11-10	4521	1143	1058	8.09375	804	151	150
42	2012-11-11	4524	1240	1206	9.17188	828	204	173
43	2012-11-12	4527	1189	1222	9.23438	795	160	191
44	2012-11-13	4531	614	677	5.18750	418	70	95
45	2012-11-14	4540	684	966	8.20312	469	98	85

46	2012-11-15	4542	1269	1845	15.68750	940	146	142
47	2012-11-16	4543	1378	1501	11.62500	967	232	140
48	2012-11-17	4544	1456	1917	16.40625	998	240	186
49	2012-11-18	4547	1439	2602	22.68750	1131	132	132
50	2012-11-19	4551	1296	1592	12.85938	898	178	174
51	2012-11-20	4551	726	682	5.03125	433	156	105
52	2012-11-21	4551	792	614	4.39062	505	116	145
53	2012-11-22	4566	1503	2332	20.01562	1159	206	98
54	2012-11-23	4566	1598	1788	14.93750	1204	166	182
55	2012-11-24	4569	1633	1940	15.54688	1174	198	175
56	2012-11-25	4575	1288	2638	24.20312	1070	111	53
57	2012-11-26	4575	1236	1389	11.54688	846	110	228
58	2012-11-27	4576	820	1210	9.98438	554	133	103
59	2012-11-28	4579	933	1858	15.62500	731	72	97
60	2012-11-29	4581	1698	2025	16.50000	1279	189	181
61	2012-11-30	4581	1914	1422	10.56250	1326	270	271
62	2012-12-01	4589	1811	2514	20.89062	1405	217	149
63	2012-12-02	4592	1840	2996	25.54688	1400	172	224
64	2012-12-03	4601	1789	2911	24.23438	1231	258	255
65	2012-12-04	4603	1029	1637	13.45312	630	177	180
66	2012-12-05	4609	1133	1495	13.29688	834	118	134
67	2012-12-06	4609	1935	1547	11.62500	1297	255	338
68	2012-12-07	4609	2060	3093	26.95312	1435	318	216
69	2012-12-08	4612	2089	1575	12.28125	1447	245	351
70	2012-12-09	4627	2031	2203	18.90625	1457	258	257
71	2012-12-10	4627	1832	1804	14.28125	1292	242	252
72	2012-12-11	4628	1049	2194	19.78125	803	100	102
73	2012-12-12	4633	1161	2047	17.89062	686	224	212
74	2012-12-13	4633	1978	2666	23.12500	1454	308	165
75	2012-12-14	4635	2001	2465	21.01562	1288	401	260
76	2012-12-15	4638	2007	2776	23.82812	972	448	522
77	2012-12-16	4640	2044	2236	19.31250	1434	350	207
78	2012-12-17	4650	1777	3339	30.34375	1496	75	162
79	2012-12-18	4653	981	1729	15.17188	671	109	152
80	2012-12-19	4653	1121	1601	13.70312	668	242	169
81	2012-12-20	4655	1884	2179	18.73438	1219	418	207
82	2012-12-21	4656	1911	1917	16.21875	1248	432	168
83	2012-12-22	4658	1938	2372	20.95312	1177	378	312
84	2012-12-23	4666	1777	2246	20.43750	1256	277	198
85	2012-12-24	4719	1363	2224	21.29688	743	146	431
86	2012-12-25	4768	767	1757	17.48438	384	46	293
87	2012-12-26	4812	781	1532	14.71875	532	126	90
88	2012-12-27	4814	848	1297	13.21875	555	147	105
89	2012-12-28	4822	702	1262	12.34375	525	59	83
90	2012-12-29	4822	991	2042	20.87500	788	73	72
91	2012-12-30	4825	1075	1911	18.89062	612	318	110
92	2012-12-31	4825	1040	936	7.37500	638	183	183
93	2013-01-01	4832	730	920	8.17188	472	121	101
94	2013-01-02	4834	1371	2459	21.93750	888	234	213
95	2013-01-03	4835	1662	1801	16.29688	1190	239	189
96	2013-01-04	4836	1669	1795	16.25000	1166	187	271
97	2013-01-05	4840	1172	2281	20.87500	669	113	315
98	2013-01-06	4840	1138	961	7.79688	675	149	259
99	2013-01-07	4845	2189	2223	19.71875	1592	236	288
100	2013-01-08	4848	2408	3262	29.60938	1559	176	622
101	2013-01-09	4851	2545	3405	32.31250	1762	381	342
102	2013-01-10	4855	2492	3130	28.98438	1731	308	392
103	2013-01-11	4857	2307	4555	44.45312	1871	126	249
104	2013-01-12	4862	1343	1566	14.26562	754	188	357
105	2013-01-13	4864	1399	2157	19.70312	966	169	211
106	2013-01-14	4866	2732	2556	21.75000	1984	310	379
107	2013-01-15	4870	2931	3400	29.50000	1757	713	400

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111	2013-01-19	4880	1709	1869	16.95312	1005	255	396
112	2013-01-20	4884	1894	2628	25.60938	1357	206	288
113	2013-01-21	4884	3153	3456	31.21875	2191	477	442
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115	2013-01-23	4885	4335	3213	29.14062	3015	519	745
116	2013-01-24	4887	4013	4442	41.98438	2907	365	672
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124	2013-02-01	4914	3674	3509	32.28125	2668	395	552
125	2013-02-02	4919	2277	1608	13.96875	1476	278	478
126	2013-02-03	4925	2592	3102	28.76562	1704	376	479
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128	2013-02-05	4927	4460	4699	44.28125	3219	577	610
129	2013-02-06	4931	4498	3615	33.85938	3147	433	851
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131	2013-02-08	4938	4106	2875	25.79688	2559	709	751
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193	2013-04-11	5153	5191	5685	1.04505	3708	586	812
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253	2013-06-10	5336	5282	5924	1.20521	3812	832	560
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382 2013-10-17    5720  8924  8732       1.59922   6680  920  1117
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394 2013-10-29    5759  9484  9537       1.79505   6640 1393  1311
395 2013-10-30    5761  9703  8135       1.50937   6611 1459  1469
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397 2013-11-01    5771  7358  7224       1.33307   5197  997   996
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