A quick look at N-CSR and N-CEN filings

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In writing this note, I use the packages listed below.[1] This note was written using Quarto and compiled with RStudio, an integrated development environment (IDE) for working with R. The source code for this note is available here.

```
library(tidyverse)
library(DBI)
library(farr)
```

I have SEC filing index files downloaded as discussed here.

```
db <- dbConnect(duckdb::duckdb())

sec_index <- load_parquet(db, "sec_index*", "edgar")
```

It's often helpful to look for variants of a `form_type`.

```
sec_index |>
  filter(str_detect(form_type, "CSR")) |>
  count(form_type, sort = TRUE) |>
  collect()
```

```
# A tibble: 7 x 2
  form_type      n
  <chr>      <dbl>
1 N-CSR      73789
2 N-CSRS     66788
3 N-CSR/A     3690
```

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[1]Execute `install.packages(c("tidyverse", "DBI", "duckdb", "farr"))` within R to install all the packages you need to run the code in this note.

```
4 N-CSRS/A    1160
5 NT-NCSR      414
6 NTFNCSR       71
7 NT-NCSR/A     44
```

Here I just grab a sample of N-CSR filings.

```
sample_filings <-
  sec_index |>
  filter(form_type == "N-CSR") |>
  arrange(desc(date_filed)) |>
  collect(n = 10)
```

I make `browse_sec()`, a small function for browsing filings on the SEC website.

```
browse_sec <- function(file_name) {
  url <- str_replace(file_name,
                     "([0-9]{10})-([0-9]{2})-([0-9]{6})\\.txt$",
                     "\\1\\2\\3/\\1-\\2-\\3-index.htm")
  url <- str_c("https://www.sec.gov/Archives/", url)
  browseURL(url)
}
```

And I use `browse_sec()` to look at the first filing.

```
browse_sec(sample_filings$file_name[1])
```

I couldn't see any director names there, but I did find them in a "N-CEN" filing around the same time.

It's often helpful to look for variants of a `form_type`.

```
sec_index |>
  filter(str_detect(form_type, "CEN")) |>
  count(form_type, sort = TRUE) |>
  collect()
```

```
# A tibble: 6 x 2
  form_type      n
  <chr>      <dbl>
1 N-CEN      19872
2 N-CEN/A     1980
```

```
3 NT N-CEN      222
4 NT-NCEN        89
5 NTFNCEN        17
6 NT-NCEN/A       2
```

This seems much rarer than N-CSR filings. Perhaps this a new form type.

Anyway, I grab a sample of these …

```
sample_cen_filings <-
  sec_index |>
  filter(form_type == "N-CEN") |>
  arrange(desc(date_filed)) |>
  collect(n = 10)
```

… and look at the first one.

```
browse_sec(sample_cen_filings$file_name[1])
```

This filing has the directors' names in XML, so pretty easy to extract.