Package 'farr'

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```

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aaer_dates 34 Index **36** aaer_dates AAER dates from SEC

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Description

A data set containing dates and descriptions for AAERs.

Usage

aaer_dates

Format

A tibble with 2,920 rows and 4 variables:

```
aaer_num AAER number
aaer_date Date
aaer_desc Description
year Year of AAER
```

aaer_firm_year

AAERs from Bao et al. (2020)

Description

A data set containing AAER firms-years used in Bao et al. (2020).

Usage

```
aaer_firm_year
```

Format

A tibble with 415 rows and 4 variables:

```
p_aaer AAER identifier
gkvey GVKEY (firm identifier)
min_year First affected year
max_year Last affected year
```

4 auc

Source

doi:10.1111/1475679X.12292

apple_events

Dates for Apple Events

Description

A data set containing the dates of Apple media events since 2005.

Usage

```
apple_events
```

Format

A tibble with 47 rows and 3 variables:

```
event Description of event
event_date First date of event
end_event_date Last date of event
```

Source

```
https://en.wikipedia.org/wiki/List_of_Apple_Inc._media_events
```

auc

Area under curve

Description

A function returning AUC.

Usage

```
auc(scores, response)
```

Arguments

scores Probability that response is true or 1.
response Responses coded as logical or 0-or-1.

Value

Vector including AUC

aus_banks 5

Source

```
https://blog.mbq.me/augh-roc/
https://stackoverflow.com/questions/4903092/calculate-auc-in-r
```

aus_banks

Australian banks

Description

A data set containing identifying information for 10 Australian banks.

Usage

aus_banks

Format

A tibble with 10 rows and 3 variables:

```
gvkey GVKEY (firm identifier)ticker Stock exchange ticker
```

co_name Bank name

aus_bank_funds

Australian bank fundamental data

Description

A data set containing fundamental financial information for Australian banks.

Usage

```
aus_bank_funds
```

Format

A tibble with 283 rows and 7 variables:

```
gvkey GVKEY (firm identifier)
```

datadate Fiscal year-end

at Total assets

ib Income before extraordinary items

xi Extraordinary items

do Income from discontinued operations

6 bloomfield_2021

aus_bank_rets

Australian bank stock market data

Description

A data set containing fundamental financial information for Australian banks.

Usage

```
aus_bank_rets
```

Format

A tibble with 3,047 rows and 4 variables:

gvkey GVKEY (firm identifier)

datadate Last trading date of month

ret Stock return for month

mkt_cap Market capitalization on datadate

bloomfield_2021

Firm-years in RDD analysis of Bloomfield (2021)

Description

Firm-years in RDD analysis of Bloomfield (2021).

Usage

```
bloomfield_2021
```

Format

A tibble with 1,855 rows and 2 variables:

```
fyear Fiscal year permco CRSP firm identifier (PERMCO)
```

Source

doi:10.1111/1475679X.12346

by_tag_year 7

by_tag_year

Tags on StackOverflow

Description

A data set containing data on tagged questions on StackOverflow.

Usage

```
by_tag_year
```

Format

A tibble with 40,518 rows and 4 variables:

year Year

tag Tag

number Number of questions with tag during year

year_total Total number of questions with tag during year

camp_attendance

Camp attendance

Description

A simulated data set related to camp attendance.

Usage

camp_attendance

Format

A tibble with 1,000 rows and 2 variables:

id Student identifier

camp Indicator for student attendance at camp

8 cmsw_2018

cmsw_2018

Data for CMSW

Description

Data on whistleblowers and enforcement actions from Call et al. (2018).

Usage

cmsw_2018

Format

A tibble with 1,133 rows and 31 variables:

recid CMSW record identifier

- **firmpenalty** The total firm civil and criminal monetary penalties assessed against the firm, its parent and subsidiaries consisting of disgorgement, prejudgment interest, civil fines, criminal restitution, and criminal fines in millions of dollars
- **otherpenalty** The total firm civil and criminal monetary penalties assessed against the agent firms and/or respondents (e.g., the audit firm, bankers, suppliers) in connection with the financial misrepresentation of the target firm, in millions of dollars
- emppenalty The total civil and criminal penalties assessed against all employees consisting of disgorgement, prejudgment interest, civil fines, criminal restitution, and criminal fines in millions of dollars
- **empprisonmos** Total incarceration consisting of jail, prison, home detention, and halfway house in months imposed upon employee respondents named in the enforcement action
- **selfdealflag** An indicator variable equal to one if the violation includes self-dealing such as embezzlement and theft by respondents and equal to zero otherwise
- **blckownpct** The percentage of blockholder ownership, defined as owners with at least five percent of common shares outstanding from the last 10-K or DEF 14A prior to the first public announcement the firm may be (is) subject to a regulatory enforcement action
- **initabret** The value-weighted market-adjusted return measured at the close of trading on the initial public announcement date that the firm may be (is) subject to a regulatory enforcement action
- **wbflag** An indicator variable equal to one if a whistleblower is associated with the enforcement action and equal to zero otherwise

tousesox Post-SOX action flag

- **Invioperiod** The natural logarithm of the total time the violation occurred in months as indicated in the regulatory enforcement proceedings
- **bribeflag** An indicator variable equal to one if the enforcement actions includes charges under the Foreign Corrupt Practices Act for bribery of a foreign official and zero otherwise
- **mobflag** An indicator variable equal to one if violation or any of the respondents were associated with a known organized crime family and zero otherwise

cmsw_2018 9

deter An indicator variable equal to one if the violation includes an offense for either option backdating, insider trading, or an offense related to an offering, IPO, merger, or reverse merger and equal to zero otherwise

- **Inempcleveln** The natural logarithm of the total number of C-level respondents (e.g. CEO, COO, CFO, CAO, CMO, and CIO) named in the enforcement action
- **Inuscodecnt** The natural logarithm of the total number of unique code sections and rules violated (charges) associated with the enforcement action
- **viofraudflag** n indicator variable equal to one if fraud under 15 USC §§ 77q, 78j(b), or rules promulgated thereunder are included among the charges in the enforcement action
- misledflag An indicator variable equal to one if the violation included violations of 17 CFR 240.13b2-2 that prohibits materially false or misleading statement to an accountant in connection with the preparation of financial statements and zero otherwise
- **audit8flag** An indicator variable equal to one if the misreporting firm used a Big N auditor, and equal to zero otherwise
- **exectermflag** An indicator variable equal to one if the firm terminated an executive respondent as a result of the violations and equal to zero otherwise
- **coopflag** An indicator variable equal to one if the firm received credit in the assessment of penalties for cooperation as stated in regulatory enforcement documents during the course of the investigation and equal to zero otherwise
- **impedeflag** An indicator variable equal to one if regulators acknowledged they were deliberately misled and/or charges were included for lying to investigators and equal to zero otherwise
- **pctinddir** The percentage of the firm's directors that are independent from the last 10-K or DEF 14A prior to the first public announcement the firm may be (is) subject to a regulatory enforcement action
- **recidivist** An indicator variable equal to one if the firm was previously the subject of a securities regulatory enforcement action and equal to zero otherwise
- **Inmktcap** The natural logarithm of the market value of equity measured in millions of dollars prior to the first public announcement that the firm may be (is) subject to a regulatory enforcement action
- **mkt2bk** The sum of market value of equity plus total assets minus total debt divided by total assets with market value determined below and total assets and total debt measured at the last fiscal year end prior to the first public announcement the firm may be (is) subject to a regulatory enforcement action
- **lev** Total debt divided by total assets measured at the last fiscal year end prior to the first public announcement the firm may be (is) subject to a regulatory enforcement action
- Indistance The natural logarithm of the distance in miles from the location of the firm's headquarters to the offices of the regulator assigned to the geographic area of the firm's headquarter location (closer of the SEC Regional Office or DOJ U.S. District Attorney).

ff12 Fama-French industry code (12-industry)

wbsource Whistleblower data source

wbtype Whistleblower type: tipster or nontipster

Source

10 confusion_stats

comp

Data on accruals and auditor choice

Description

A data set containing data about accruals for 2,000 firms.

Usage

comp

Format

A tibble with 16,237 rows and 14 variables:

gvkey GVKEY (firm identifier)

datadate Fiscal year-end

fyear Fiscal year

big_n Indicator for Big Four auditor

ta Total accruals (scaled by assets)

roa Return on assets

cfo Cash flow from operating activities (scaled by assets)

size Size

lev Leverage

mtb Market-to-book ratio

inv_at 1/Total assets

d_sale Change in revenue

d_ar Change in accounts receivable

ppe Property, plant & equipment (scaled by assets)

confusion_stats

Confusion statistics.

Description

A function returning sensitivity and precision.

Usage

```
confusion_stats(scores, response, predicted = NULL, k = NULL)
```

fhk_firm_years 11

Arguments

scores Probability that response is true or 1.

response Responses coded as logical or 0-or-1.

predicted Predicted value coded as 0-or-1.

k Percentage to classify as TRUE or 1.

Value

vector including sensitivity and precision

fhk_firm_years

Firm-years for replication of Fang, Huang and Karpoff (2016)

Description

A data set containing the GVKEYs and datadates for firm-years used in Fang, Huang and Karpoff (2016).

Usage

```
fhk_firm_years
```

Format

A tibble with $60,272 \text{ rows} \times 2 \text{ variables}$.

gvkey GVKEY (firm identifier)

datadate Fiscal year-end

Source

doi:10.1111/jofi.12369

form_deciles

fhk_pilot

Treatment indicators for SHO pilot firms

Description

A data set containing the tickers, GVKEYs, and treatment indicator for the SHO pilot program.

Usage

```
fhk_pilot
```

Format

A tibble with $3,030 \text{ rows} \times 4 \text{ variables}$.

```
ticker Ticker
```

gvkey GVKEY (firm identifier)

permno PERMNO (CRSP security identifier)

pilot SHO pilot program treatment indicator

Source

```
doi:10.1111/jofi.12369
```

form_deciles

Form deciles

Description

Calculate deciles for a variable.

Usage

```
form_deciles(x)
```

Arguments

Х

A vector for which deciles are to be calculated.

Value

vector

get_annc_dates 13

Examples

```
library(farr)
library(dplyr, warn.conflicts = FALSE)

df <-
    tibble(x = rnorm(100)) %>%
    mutate(dec_x = form_deciles(x))
df
```

get_annc_dates

Produce a table mapping announcements to trading dates

Description

Produce a table mapping announcements to trading dates.

Usage

```
get_annc_dates(conn)
```

Arguments

conn

connection to a PostgreSQL or DuckDB database

Value

tbl_df

Examples

```
## Not run:
## Not run:
library(DBI)
library(dplyr, warn.conflicts = FALSE)
library(RPostgres)
pg <- dbConnect(Postgres())
get_annc_dates(pg)
## End(Not run)
## End(Not run)</pre>
```

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get_event_cum_rets

Produce a table of cumulative event returns

Description

Produce a table of event returns from CRSP.

Usage

```
get_event_cum_rets(
  data,
  conn,
  permno = "permno",
  event_date = "event_date",
  win_start = 0,
  win_end = 0,
  end_event_date = NULL,
  suffix = ""
)
```

Arguments

data frame containing data on events

conn connection to a PostgreSQL or DuckDB database

permno string representing column containing PERMNOs for events

event_date string representing column containing dates for events

win_start integer representing start of trading window (e.g., -1)

win_end integer representing start of trading window (e.g., 1)

end_event_date string representing column containing ending dates for events

suffix Text to be appended after "ret" in variable names

Value

tbl_df

Examples

```
get_event_cum_rets_mth 15
```

```
## End(Not run)
## End(Not run)
```

```
get_event_cum_rets_mth
```

Produce a table of cumulative event returns using monthly data

Description

Produce a table of event returns from CRSP

Usage

```
get_event_cum_rets_mth(
  data,
  conn,
  permno = "permno",
  event_date = "event_date",
  win_start = 0,
  win_end = 0,
  end_event_date = NULL,
  suffix = ""
)
```

Arguments

data	data frame containing data on events
conn	connection to a PostgreSQL or DuckDB database
permno	string representing column containing PERMNOs for events
event_date	string representing column containing dates for events
win_start	integer representing start of trading window (e.g., -1) in months
win_end	integer representing start of trading window (e.g., 1) in months
end_event_date	string representing column containing ending dates for events
suffix	Text to be appended after "ret" in variable names.

Value

16 get_event_dates

Examples

get_event_dates

Produce a table mapping announcements to trading dates

Description

Produce a table of event dates for linking with CRSP.

Usage

```
get_event_dates(
  data,
  conn,
  permno = "permno",
  event_date = "event_date",
  win_start = 0,
  win_end = 0,
  end_event_date = NULL
)
```

Arguments

data frame containing data on events

conn connection to a PostgreSQL or DuckDB database

permno string representing column containing PERMNOs for events

event_date string representing column containing dates for events

win_start integer representing start of trading window (e.g., -1)

win_end integer representing start of trading window (e.g., 1)

end_event_date string representing column containing ending dates for events

Value

get_event_rets 17

Examples

get_event_rets

Produce a table of event returns

Description

Produce a table of event returns from CRSP.

Usage

```
get_event_rets(
  data,
  conn,
  permno = "permno",
  event_date = "event_date",
  win_start = 0,
  win_end = 0,
  end_event_date = NULL
)
```

Arguments

```
data frame containing data on events

conn connection to a PostgreSQL database

permno string representing column containing PERMNOs for events

event_date string representing column containing dates for events

win_start integer representing start of trading window (e.g., -1)

win_end integer representing start of trading window (e.g., 1)

end_event_date string representing column containing ending dates for events
```

Value

18 get_ff_ind

Examples

get_ff_ind

Fetch Fama-French industry grouping.

Description

Fetch Fama-French industry grouping from Ken French's website.

Usage

```
get_ff_ind(ind)
```

Arguments

ind

Fama-French industry grouping (e.g., 11, 48)

Value

tbl_df

Examples

```
## Not run:
get_ff_ind(5)
## End(Not run)
```

get_got_data 19

get_got_data	Generate simulated data as described in Gow, Ormazabal and Taylor (2010).

Description

Function to generate simulated panel data as described in Gow, Ormazabal and Taylor (2010).

Usage

```
get_got_data(N = 400, T = 20, Xvol, Evol, rho_X, rho_E)
```

Arguments

N	Number of firms
Т	Number of years
Xvol	Cross-sectional correlation of X
Evol	Cross-sectional correlation of errors
rho_X	Autocorrelation coefficient for firm-effect portion of X
rho_E	Autocorrelation coefficient for firm-effect portion of epsilon

Value

tibble

Source

```
https://www.jstor.org/stable/20744139
```

Examples

20 get_me_breakpoints

get_idd_periods

Period for Inevitable Disclosure Doctrine (IDD)

Description

Periods defined by precedent-setting legal cases adopting or rejecting the Inevitable Disclosure Doctrine (IDD) by state.

Usage

```
get_idd_periods(min_date, max_date)
```

Arguments

min_date First date of sample period
max_date Last date of sample period

Details

Three kinds of period by state:

- Pre-adoption
- · Post-adoption
- Post-rejection

Value

```
tibble with four columns: state, period_type, start_date, end_date
```

Examples

```
idd\_periods <- \ get\_idd\_periods (min\_date = "1994-01-01", \\ max\_date = "2010-12-31") \\ idd\_periods
```

get_me_breakpoints

Create a table of with cut-offs for size portfolios

Description

Create a table of with cut-offs for size portfolios

Usage

```
get_me_breakpoints(keep_max = FALSE)
```

get_size_rets_monthly 21

Arguments

 ${\tt keep_max}$

Set to TRUE to keep upper-bound of highest decile. Default is FALSE, which will replace upper bound with Inf.

Examples

```
library(dplyr, warn.conflicts = FALSE)
get_me_breakpoints() %>% filter(month == '2022-04-01')
```

```
get_size_rets_monthly Create a table of monthly returns for size portfolios
```

Description

Create a table of monthly returns for size portfolios

Usage

```
get_size_rets_monthly()
```

Value

tbl_df

get_test_scores

A function returning data on test_scores

Description

A function returning simulated data on test_scores.

Usage

```
get_test_scores(
  effect_size = 15,
  n_students = 1000L,
  n_grades = 4L,
  include_unobservables = FALSE,
  random_assignment = FALSE
)
```

22 get_trading_dates

Arguments

effect_size Effect of attending camp on subsequent test scores

n_students Number of students in simulated data set

n_grades Number of grades in simulated data set

include_unobservables

Include talent in returned data (TRUE or FALSE)

random_assignment

Is assignment to treatment completely random? (TRUE or FALSE)

Value

tbl_df

Examples

```
set.seed(2021)
library(dplyr, warn.conflicts = FALSE)
get_test_scores() %>% head()
```

get_trading_dates

Produce a table mapping dates on CRSP to "trading days"

Description

Produce a table mapping dates on CRSP to "trading days". Returned table has two columns: date, a trading date on CRSP; td, a sequence of integers ordered by date.

Usage

```
get_trading_dates(conn)
```

Arguments

conn

connection to a PostgreSQL or DuckDB database

Value

tbl_df

Examples

```
## Not run:
library(DBI)
library(dplyr, warn.conflicts = FALSE)
pg <- dbConnect(RPostgres::Postgres())
get_trading_dates(pg) %>%
   filter(between(date, as.Date("2022-03-18"), as.Date("2022-03-31")))
## End(Not run)
```

gvkey_ciks 23

gvkey_ciks

GVKEY-CIK links

Description

Link table from GVKEYs to CIKs

Usage

```
gvkey_ciks
```

Format

A tibble with 48,517 rows and 5 variables:

gvkey GVKEY (Compustat firm identifier)

iid Issue ID

cik CIK (SEC firm identifier)

first_date First link date

last_date Last link date

idd_dates

Dates for Inevitable Disclosure Doctrine (IDD)

Description

Dates of precedent-setting legal cases adopting or reject the Inevitable Disclosure Doctrine (IDD) by state.

Usage

idd_dates

Format

A tibble with 24 rows and 3 variables:

state Two-letter state abbreviation

idd_date Date of precedent-setting legal case

idd_type Either "Adopt" or "Reject"

Source

doi:10.1016/j.jfineco.2018.02.008

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iliev_2010

Data on public float

Description

Data on public float of listed companies from Iliev (2010).

Usage

iliev_2010

Format

A tibble with 7,214 and 9 variables:

gvkey Compustat firm identifier (GVKEY)

fyear Fiscal year

fdate Date of end of fiscal year

pfdate Date for public float value

pfyear Year for public float value

publicfloat Public float in \$ million

mr Indicator for filing of a management report

af Indicator for accelerator filer

cik SEC firm identifier (CIK)

Source

doi:10.1111/j.15406261.2010.01564.x

11z_2018

GVKEYs used in Li, Lin and Zhang (2018).

Description

GVKEYs used in Li, Lin and Zhang (2018).

Usage

11z_2018

Format

A tibble with 5,830 rows and 1 variable:

gvkey GVKEY

load_parquet 25

Source

doi:10.1111/1475679X.12187

<pre>load_parquet</pre>	Function to load parquet file into database.
-------------------------	--

Description

Function to read data from a parquet file data_dir/schema/table_name.parquet into a table in the DuckDB database at conn.

Usage

```
load_parquet(conn, table, schema = "", data_dir = Sys.getenv("DATA_DIR"))
```

Arguments

conn	DuckDB connection
table	Name of table to be loaded
schema	Database schema for table
data_dir	Directory for data repository

Value

Remote data frame in conn

michels_2017	Data on firms suffering natural disasters	

Description

Data on firms suffering natural disasters based on the sample in Michels (2017).

Usage

```
michels_2017
```

26 ndcg

Format

```
cusip CUSIP supplied by Michels (2017)

eventdate Date of relevant natural disaster supplied by Michels (2017)

cik Matched CIK (SEC firm identifier)

permno Matched PERMNO (CRSP security identifier)

gvkey Matched GVKEY (Compustat firm identifier)

date_filed Date of next filing of type 10-Q, 10-K, 10QSB, 10-K405 after event

form_types List of relevant form types filed on date_filed

next_period_end Next fiscal period-end after event date

next_fqtr Fiscal quarter of next period-end after event date

prev_period_end Last fiscal period-end before event date

prev_fqtr Fiscal quarter of last period-end before event date

recognize Indicator for event being recognized (next_period_end before date_filed)
```

Source

doi:10.1111/1475679X.12128

ndcg Calculate metric: NDCG at k

Description

A function returning NDCG-at-k metric.

Usage

```
ndcg(scores, response, k = 0.01)
```

Arguments

response Probability that response is true or 1.

Responses coded as logical or 0-1.

Responses to classify as TRUE or 1.

Value

vector including sensitivity and precision

pg_to_parquet 27

pg_to_parquet

Save WRDS table as parquet file.

Description

Function to get data from a table on the WRDS PostgreSQL server and save to local parquet file using DuckDB.

Usage

```
pg_to_parquet(table_name, schema, data_dir = Sys.getenv("DATA_DIR"))
```

Arguments

table_name Name of table on WRDS
schema Database schema for table
data_dir Directory for data repository

Value

Number of rows created

roc

A function returning data for a ROC plot.

Description

A function returning data for a ROC plot.

Usage

```
roc(scores, response)
```

Arguments

scores Probability that response is true or 1.
response Responses coded as logical or 0-or-1.

Value

28 rusboost

Random under-sampling function

Description

Function to create temporary training dataset using distribution implied by w.

Usage

```
rus(y_train, ir = 1)
```

Arguments

y_train df on the target variable.

ir Imbalance ratio. Specifies how many times the under-sampled majority in-

stances are over minority instances.

Details

Following MATLAB, function samples observations of the minority class with replacement and observations of the majority class without replacement.

Value

vector

rus	hor	nst
ı us	$\omega \omega$	J S L

RUSBoost for two-class problems

Description

RUSBoost for two-class problems.

Usage

```
rusboost(formula, df, size, ir = 1, learn_rate = 1, rus = TRUE, control)
```

Arguments

formula	A formula specify predictors and target variable. Target variable should be a factor of 0 and 1. Predictors can be either numerical and categorical.
df	A df frame used for training the model, i.e. training set.
size	Ensemble size, i.e. number of weak learners in the ensemble model
ir	Imbalance ratio. Specifies how many times the under-sampled majority instances are over minority instances.

sho_r3000

learn_rate Default of 1.

rus TRUE for random undersampling; FALSE for AdaBoost with full sample

control Control object passed onto rpart function.

Value

rusboost object

sho_r3000

Russell 3000 stocks at time of SEC Reg SHO sample formation

Description

A data set containing the tickers and company names for Russell 3000 at time SEC created the pilot sample. Data are created from sample supplied by FHK.

Usage

sho_r3000

Format

A tibble with 3000 rows \times 2 variables.

russell_ticker Ticker

russell_name Company name

Source

doi:10.1111/jofi.12369

sho_r3000_gvkeys

Russell 3000 sample used by SEC with GVKEYs

Description

A data set containing the tickers, PERMNOs, GVKEYs, and treatment assignments for Russell 3000 sample used by SEC.

Usage

sho_r3000_gvkeys

sho_r3000_sample

Format

```
A tibble with 2,951 rows \times 3 variables.
```

```
ticker Ticker
```

permno PERMNO (CRSP security identifier)

gvkey GVKEY (Compustat firm identifier)

pilot Indicator for stock being part of Reg SHO pilot program

Source

```
https://iangow.github.io/far_book/natural-revisited.html#the-sho-pilot-sample
```

sho_r3000_sample

Russell 3000 sample used by SEC

Description

A data set containing the tickers, PERMNOs, and treatment assignments for Russell 3000 sample used by SEC.

Usage

```
sho_r3000_sample
```

Format

A tibble with $2,954 \text{ rows} \times 3 \text{ variables}$.

ticker Ticker

permno PERMNO (CRSP security identifier)

pilot Indicator for stock being part of Reg SHO pilot program

Source

https://iangow.github.io/far_book/natural-revisited.html#the-sho-pilot-sample

sho_tickers 31

sho_tickers

Tickers of pilot firms for Reg SHO

Description

A data set containing the tickers and company names for pilot firms from Reg SHO pilot. Data are scraped from the SEC's own website.

Usage

sho_tickers

Format

A tibble with 986 rows \times 2 variables.

ticker Ticker

co_name Company name

Source

https://www.sec.gov/rule-release/34-50104

state_hq

Data on firm headquarters based on SEC EDGAR filings

Description

Data on firm headquarters based on SEC EDGAR filings. Dates related to SEC filing dates. Rather than provide dates for all filings, data are aggregated into groups of filings by state and CIK and dates are collapsed into windows over which all filings for a given CIK were associated with a given state. For example, CIK 0000037755 has filings with a CA headquarters from 1994-06-02 until 1996-03-25, then filings with an OH headquarters from 1996-05-30 until 1999-04-05, then filings with a CA headquarters from 1999-06-11 onwards. To ensure continuous coverage over the sample period, it is assumed that any change in state occurs the day after the last observed filing for the previous state.

Usage

state_hq

32 test_scores

Format

A tibble with 53,133 rows and 4 variables:

cik SEC's Central Index Key (CIK)

ba_state Two-letter abbreviation of state

min_date Date of first filing with CIK-state combination in a contiguous series of filings max_date Date of last filing with CIK-state combination in a contiguous series of filings

Source

https://sraf.nd.edu/sec-edgar-data/10-x-header-data/

system_time

Version of system.time() that works with assignment

Description

Print CPU (and other) times that expr used, return value of expr.

Usage

```
system_time(expr)
```

Arguments

expr

Valid R expression to be timed, evaluated and returned

Value

Result of evaluating expr

test_scores

Test scores

Description

A simulated data set of test scores.

Usage

test_scores

Format

A tibble with 4,000 rows and 3 variables:

id Student identifier

grade School grade at time of test

score Test score

truncate 33

truncate	Truncate a vector.
----------	--------------------

Description

Truncate a vector at prob and 1 - prob. Extreme values are turned into NA values.

Usage

```
truncate(x, prob = 0.01, p_low = prob, p_high = 1 - prob)
```

Arguments

X	A vector to be winsorized
prob	Level (two-sided) for winsorization (e.g., 0.01 gives 1% and 99%)
p_low	Optional lower level for winsorization (e.g., 0.01 gives 1%)
p_high	Optional upper level for winsorization (e.g., 0.99 gives 99%)

Value

vector

Examples

```
trunced <- truncate(1:100, prob = 0.05)
min(trunced, na.rm = TRUE)
max(trunced, na.rm = TRUE)</pre>
```

undisclosed_names

Customer names that represent non-disclosures

Description

Data to be combined with data in compsegd. seg_customer to create an indicator for non-disclosure of customer names.

Usage

```
undisclosed_names
```

Format

A tibble with 460 rows and 2 variables:

```
cnms Matches field in compsegd.seg_customer (WRDS) disclosure Indicator that name is not disclosed
```

zhang_2007_events

W1	nsc	or 1	ze

Winsorize a vector

Description

Winsorize a vector at prob and 1 - prob.

Usage

```
winsorize(x, prob = 0.01, p_low = prob, p_high = 1 - prob)
```

Arguments

Χ	A vector to be winsorized
prob	Level (two-sided) for winsorization (e.g., 0.01 gives 1% and 99%)
p_low	Optional lower level for winsorization (e.g., 0.01 gives 1%)
p_high	Optional upper level for winsorization (e.g., 0.99 gives 99%)

Value

vector

Examples

```
winsorized <- winsorize(1:100, prob = 0.05)
min(winsorized, na.rm = TRUE)
max(winsorized, na.rm = TRUE)</pre>
```

zhang_2007_events

Event dates from Zhang (2007)

Description

A data set containing the event dates used in Zhang (2007). Data obtained from Panel of Table of Zhang (2007). If an event spans multiple dates, then a row is included for each date.

Usage

```
zhang_2007_events
```

Format

```
A tibble with 30 rows \times 3 variables.
```

```
event Identifier for the eventdate Date of eventevent_desc Description of the event
```

zhang_2007_windows 35

Source

doi:10.1016/j.jacceco.2007.02.002

zhang_2007_windows

Event windows from Zhang (2007)

Description

A data set containing the event windows used in Zhang (2007). Data obtained from Panel of Table of Zhang (2007).

Usage

zhang_2007_windows

Format

A tibble with 17 rows \times 3 variables.

event Identifier for the event

beg_date First date of event windowend_date Last date of event window

Source

doi:10.1016/j.jacceco.2007.02.002

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