Package 'farr'

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Title Data and Code for Financial Accounting Research

Version 0.3.0

Description Handy functions and data to support a course book for accounting research. Gow, Ian and Tongqing Ding (2022) 'Accounting Research: An Introductory Course' <https://iangow.github.io/far_book/>.

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aaer_dates

AAER dates from SEC

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 numberaaer_date Dateaaer_desc Descriptionyear 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 identifiergkvey GVKEY (firm identifier)min_year First affected yearmax_year Last affected year

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

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

aus_bank_rets

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

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

cmsw_2018

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

- **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 headquarter ters 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

doi:10.1111/1475679X.12177

comp

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

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

fhk_pilot

Description

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

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

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. See vignette("wrds-conn", package = "farr") for more on using this function.

Usage

get_annc_dates(conn)

Arguments

conn connection to a PostgreSQL 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)

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

Value

tbl_df

Examples

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 See vignette("wrds-conn", package = "farr") for more on using this function.

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 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

tbl_df

Examples

get_event_dates Produce a table mapping announcements to trading dates

Description

Produce a table of event dates for linking with CRSP. See vignette("wrds-conn", package = "farr") for more on using this function.

Usage

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

Arguments

data	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)
<pre>end_event_date</pre>	string representing column containing ending dates for events

Value

tbl_df

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get_event_rets

Examples

get_event_rets Produce a table of event returns

Description

Produce a table of event returns from CRSP. See vignette("wrds-conn", package = "farr") for more on using this function.

Usage

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

Arguments

data	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

tbl_df

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)
```

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get_got_data

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

Ν	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

get_idd_periods

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

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()

get_size_rets_monthly

Value

tbl_df

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
)
```

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 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)

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gvkey_ciks

Description

Link table from GVKEYs to CIKs

Usage

gvkey_ciks

Format

A tibble with 76,346 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

iliev_2010

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

Source

doi:10.1111/1475679X.12187

load_parquet

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	g natural disasters
--------------------------------------	---------------------

Description

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

Usage

michels_2017

Format

A tibble with 423 rows and 12 variables:

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

scores	Probability that response is true or 1.
response	Responses coded as logical or 0-1.
k	Percentage to classify as TRUE or 1.

Value

vector including sensitivity and precision

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pg_to_parquet

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

tbl_df

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

rusboost

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 in- stances are over minority instances.

rus

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

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

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sho_tickers

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

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/data/augmented-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 identifiergrade School grade at time of testscore Test score

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truncate

Description

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

Usage

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

Arguments

х	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

winsorize

Description

Winsorize a vector at prob and 1 - prob.

Usage

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

Arguments

Х	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 event

date Date of event

event_desc Description of the event

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 window

end_date Last date of event window

Source

doi:10.1016/j.jacceco.2007.02.002

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