Package ‘cumplyr’
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Type Package
Title Extends ddply to allow calculation of cumulative quantities.
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Description Extends ddply to allow calculation of cumulative quantities.
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cumplyr-package Extends ddply to allow calculation of cumulative quantities.

Description

Extends ddply to allow calculation of cumulative quantities.

Details
cartesian_product

Compute the Cartesian product of named variables.

description
Compute the Cartesian product of named variables.

Usage

cartesian_product(variable.names, envir = parent.frame())

Arguments

variable.names Character vector of names of variables
envir The environment in which to find names

Value

The Cartesian product of all variables
cumddply

Examples

```r
library('cumplyr')
x <- 1:2
y <- 10:11
cartesian_product(c('x', 'y'))

tmp.env <- new.env()
assign('x', 1:3, envir = tmp.env)
assign('y', 2:4, envir = tmp.env)
cartesian_product(c('x', 'y'), envir = tmp.env)
```

cumddply  Cumulative ddply

Description

Cumulative ddply

Usage

cumddply(data, equality.variables, inequality.variables, func)

Arguments

data Data to process
equality.variables Character vector variables used to split data on equality
inequality.variables Character vector variables used to split data on inequality
func Function to call on each split of the data

Value

Data frame with cumulative results combined across splits

Examples

```r
library('cumplyr')
data(rt.data)
results <- cumddply(rt.data,
                      c('Subject', 'Block'),
                      c('Trial'),
                      function (df) {with(df, mean(RT))})

print(results)
```
iddply with inequality constraints

Description
iddply with inequality constraints

Usage
iddply(data,
equality.variables,
lower.bound.variables,
upper.bound.variables,
norm.ball.variables,
func)

Arguments
data Data to process
equality.variables Character vector of variables used to split data on equality
lower.bound.variables Character vector of variables used to split data on lower bound inequalities
upper.bound.variables Character vector of variables used to split data on upper bound inequalities
norm.ball.variables Character vector of variables used to split data on norm ball inequalities
func Function to call on each split-out subset of the data

Value
Data frame with results combined across splits

Examples
library('cplyr')
data <- data.frame(Time = 1:5, Value = seq(1, 9, by = 2))
iddply(data,
equality.variables = c('Time'),
lower.bound.variables = c(),
upper.bound.variables = c(),
norm.ball.variables = list(),
func = function (df) {with(df, mean(Value)))}
iddply(data,
equality.variables = c(),
lower.bound.variables = c('Time'),
upper.bound.variables = c(),
norm.ball.variables = list(),
func = function (df) {with(df, mean(value))})

iddply(data,
equality.variables = c(),
lower.bound.variables = c('Time'),
upper.bound.variables = c(),
norm.ball.variables = list('Time' = 1),
func = function (df) {with(df, mean(value))})

iddply(data,
equality.variables = c(),
lower.bound.variables = c('Time'),
upper.bound.variables = c(),
norm.ball.variables = list('Time' = 2),
func = function (df) {with(df, mean(value))})

iddply(data,
equality.variables = c(),
lower.bound.variables = c('Time'),
upper.bound.variables = c(),
norm.ball.variables = list('Time' = 5),
func = function (df) {with(df, mean(value))})
Block  a numeric vector  
Trial  a numeric vector  
CumMeanRT  a numeric vector  

Examples  

data(processed.rt.data)  

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rt.data  rt.data  

Description  
RT data  

Usage  

data(rt.data)  

Format  
A data frame with 12 observations on the following 4 variables.  
Subject  Subject ID number  
Block  Block ID  
Trial  Trial ID  
RT  RT measurement  

Examples  

data(rt.data)  

with(rt.data, mean(RT))
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