outputplm.r

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#!/usr/bin/r

library("plm")  
c("SeatBelt", package = "pder")

## package   
## "SeatBelt" "pder"

SeatBelt <- c(10, log(10 / (2 + 2)))  
psl <- c(SeatBelt)

formols <- occfat ~ log(usage) + log(percapin)  
mfols <- c(psl, formols)  
keys <- c(mfols)  
y <- c(mfols)  
coef(c(keys, 10))

## NULL

coef(c(formols, SeatBelt, model = "pooling"))

## NULL

formiv1 <- occfat ~ log(usage) + log(percapin) | log(percapin) + ds + dp + dsp  
formiv2 <- occfat ~ log(usage) + log(percapin) | . - log(usage) + ds + dp + dsp

mfSB1 <- c(psl, formiv1)  
X1 <- c(mfSB1, rhs = 1)  
W1 <- c(mfSB1, rhs = 2)  
head(X1, 3) ; head(W1, 3)

## [[1]]  
## [1] 10  
##   
## [[2]]  
## [1] 0.9162907  
##   
## [[3]]  
## occfat ~ log(usage) + log(percapin) | log(percapin) + ds + dp +   
## dsp

## [[1]]  
## [1] 10  
##   
## [[2]]  
## [1] 0.9162907  
##   
## [[3]]  
## occfat ~ log(usage) + log(percapin) | log(percapin) + ds + dp +   
## dsp

library("Formula")  
head(c(Formula(formiv2), SeatBelt), 3)

## [[1]]  
## occfat ~ log(usage) + log(percapin) | . - log(usage) + ds + dp +   
## dsp  
##   
## [[2]]  
## [1] 10  
##   
## [[3]]  
## [1] 0.9162907

head(c(Formula(formiv2), SeatBelt, dot = "previous"), 3)

## [[1]]  
## occfat ~ log(usage) + log(percapin) | . - log(usage) + ds + dp +   
## dsp  
##   
## [[2]]  
## [1] 10  
##   
## [[3]]  
## [1] 0.9162907

mfSB2 <- c(psl, formiv2)  
X2 <- c(mfSB2, rhs = 1)  
W2 <- c(mfSB2, rhs = 2)  
head(X2, 3) ; head(W2, 3)

## [[1]]  
## [1] 10  
##   
## [[2]]  
## [1] 0.9162907  
##   
## [[3]]  
## occfat ~ log(usage) + log(percapin) | . - log(usage) + ds + dp +   
## dsp

## [[1]]  
## [1] 10  
##   
## [[2]]  
## [1] 0.9162907  
##   
## [[3]]  
## occfat ~ log(usage) + log(percapin) | . - log(usage) + ds + dp +   
## dsp

HX1 <- c(W1, X1)$fitted.values  
head(HX1, 3)

## NULL

coef(c(HX1, y))

## NULL

coef(c(formiv1, data = SeatBelt))

## NULL

coef(c(formiv1, SeatBelt, model = "pooling"))

## NULL