linearFeedbackModel

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lfm	Estimate the linear feedback model in Blundell, Griffith and Windmeijer (2002)	_

Description

Estimate the linear feedback model in Blundell, Griffith and Windmeijer "Individual effects and dynamics in count data models", Journal of Econometrics 108 (2002) 113-131

Usage

```
lfm(formula, data, effect = "individual", model = "onestep",
    weight.matrix = "instruments", index = NULL, start = NULL)
```

Arguments

formula	Similar to the pgmm() function in package plm. A symbolic description for the model to be estimated. Indicate a multi-part formula, the first two parts describing the covariates and the gmm instruments and, if any, the third part the 'normal' instruments. The first independent variable must be the lag of the dependent variable.
data	A pdata.frame, or a data.frame if using the index option.
effect	Either "individual" or "twoways". The former only includes individual fixed effects while the latter also includes time fixed effects.
effect	Either "onestep" or "twosteps". Whether to do one-step GMM or two-step GMM.
weight.matrix	Either "identity" or "instruments". Whether to use the identity matrix of the cross product of the instruments for the first-step weight matrix.

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index If data is not a pdata. frame, use this option to declare the names of the indi-

vidual and time indexes.

start An optional vector of starting values for optimization.

Value

call The matched call

coefficients The estimated coefficient fitted.values data.frame of fitted values first The first stage estimates

fixed.effects Estimates of the individual fixed effects

model The variables used for estimation for each individual

residuals data.frame of residuals

vcov The covariance matrix of the coefficients
W1 The first-stage weight matrix used

W2 The second-stage (efficient) weight matrix used (only returned if model = "twosteps"

is used)

Z The instrument matrix for each individual

obj The value of the GMM objective function at the estimated parameters.

Examples

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