Title stata.com

**xteprobit** — Extended random-effects probit regression

Description Quick start Menu Syntax

## **Description**

xteprobit fits a random-effects probit model that accommodates any combination of endogenous covariates, nonrandom treatment assignment, and endogenous sample selection and also accounts for correlation of observations within panels or within groups.

Continuous, binary, and ordinal endogenous covariates are allowed. Treatment assignment may be endogenous or exogenous. A probit or tobit model may be used to account for endogenous sample selection.

xteprobit fits probit extended regression models for panel data in the same way that eprobit does for cross-sectional data. See [ERM] **eprobit** to learn about these models and how to fit them using xteprobit.

## **Quick start**

Random-effects probit regression of y on x with continuous endogenous covariate y2 modeled by x and z using xtset data

```
xteprobit y x, endogenous(y2 = x z)
```

Same as above, but with binary endogenous covariate d modeled by x and z

```
xteprobit y x, endogenous(d = x z, probit)
```

Random-effects probit regression of y on x with endogenous treatment trtvar modeled by x and z xteprobit y x, entreat(trtvar = x z)

Same as above, but only the equation for y has a random effect

```
xteprobit x, entreat(trtvar = x z, nore)
```

Random-effects probit regression of y on x with endogenous sample-selection indicator selvar modeled by x and z

```
xteprobit y x, select(selvar = x z)
```

Same as above, but adding endogenous covariate y2 modeled by x and z2

```
xteprobit y x, select(selvar = x z) endogenous(y2 = x z2)
```

## Menu

Statistics > Longitudinal/panel data > Endogenous covariates > Models adding selection and treatment > Probit regression (RE)

## **Syntax**

For syntax, methods, and all other information on xteprobit, see [ERM] eprobit.

Stata, Stata Press, and Mata are registered trademarks of StataCorp LLC. Stata and Stata Press are registered trademarks with the World Intellectual Property Organization of the United Nations. StataNow and NetCourseNow are trademarks of StataCorp LLC. Other brand and product names are registered trademarks or trademarks of their respective companies. Copyright © 1985–2023 StataCorp LLC, College Station, TX, USA. All rights reserved.



For suggested citations, see the FAQ on citing Stata documentation.