

File Edit Model Help

1.0 Group: Lsd/Example Models/Exercise Models Model: Linear model Version: 0.1 File: description.txt

Linear growth model

Very basic model, composed by a single equation implementing a linear growth model:

|X=X[t-1]+a

This model can be used as a very first approach to Lsd. In particular, notice how different model structures can be used to compute the same equation(s).

The example includes 3 configurations, to be loaded using the Lsd model browser:

- Sim1: single variable model. The model results depend on the initial values for X[0] and a
- Sim2: multiple objects. Lsd allows to multiply variables by setting the number of objects containing the variables. Each instance (i.e. copy) of the variable and paramter needs to be initialized. This configuration uses the same values for parameters "a" and different initial values X[0]
- Sim3: Identical results as for Sim2, but the configuration is different. Parameter "a" is moved into a single object, which contains several copies of other objects, each containing a copy of X. Clearly, the result is the same.

The fact that you obtain the same result for Sim2 and Sim3 stems from the capacity of Lsd to find the values necessary for the computation of equations.

The see the equation file choose menu Model/Show equations To run the model choose menu Model/Run Model