@param: Model parameters (Population averages)

This specifies the parameters of the model, and their domains:

- RealDomain: real values (possibly subject to upper/lower bounds)
- VectorDomain: vector of real valies
- PSDDomain: symmetric positive-definite matrices (e.g. for covariance matrices)
- PDiagDomain: postive-valued diagonal matrices

@random: Random effects (Individual differences)

```
1 @random begin
2 η ~ MvNormal(Ω)
3 end
```

Specifies the random effects, dependent on parameters. The random effects are defined by a distribution from Distributions.jl.

@pre: pre-processing

```
1 @pre begin
2    Ka = θ1*exp(η[1])
3    K = θ2
4    CL = θ3*wt*exp(η[2])
5    V = CL/K
6    SC = V/wt
7 end
```

This determines how the model parameters, random effects and covariates are combined before the differential equations solver.

@init: Initial values (optional)

```
1 @init begin
2    Depot = 0.0
3    Central = 0.0
4 end
```

Specifies the starting values of the differential equations at the time of first dose.