

# Package: saeBest (via r-universe)

August 26, 2024

**Type** Package

**Title** Selecting Auxiliary Variables in Small Area Estimation (SAE) Model

**Version** 0.1.0

**Imports** sae

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**Description** Select best combination of auxiliary variables with certain criterion.

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.2

**Depends** R (>= 2.10)

**NeedsCompilation** no

**Date/Publication** 2021-12-07 11:00:02 UTC

**Repository** <https://sheerinda.r-universe.dev>

**RemoteUrl** <https://github.com/cran/saeBest>

**RemoteRef** HEAD

**RemoteSha** a5c8c854b3cdb0d7b7deacff6ab3bf54778e699c

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data	<i>Dataset</i>
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**Description**

Dataset

**Usage**

data(data)

**Format**

An object of class

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eblupBest	<i>Selecting Auxiliary Variables in Small Area Estimation (SAE) Model</i>
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**Description**

Select best combination of auxiliary variables with certain criterion

**Usage**

eblupBest(y, x, vardir, criterion = "AIC", data)

**Arguments**

y	name of response variable
x	vector of auxiliary variables' name
vardir	name of variance direct
criterion	"loglike", "AIC", "BIC", and "KIC" (default = "AIC")
data	input dataset

**Value**

an EBLUP-FH model with best auxiliary variables and the dataset

**Examples**

```
library(saeBest)
example = eblupBest(y = "y", x = c("x1", "x2", "x3"), vardir = "var", data = data)
```

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