

FAQ: R package *mixedpower*

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1. Why do I get this warning or error message when specifying a SESOI?

Warning Message:

```
In if (SESOI != F & length(SESOI) !=length(row.names(summary(model).
$coefficients))) {: the condition has length > 1 and only the first
element will be used"
```

This warning message can be ignored and is removed in the newest update of the *mixedpower* package. It is raised when *mixedpower* tries to determine if a SESOI is specified and `SESOI != FALSE`.

Error Message:

```
In if (SESOI != F & length(SESOI) !=length(row.names(summary(model).
$coefficients))) {: the condition has length > 1"
```

For R versions > 4.2.0, the same error results in an error message and *mixedpower* crashes. We have updated *mixedpower* accordingly. Updating/reinstalling *mixedpower* should solve the problem.

2. "Simulations are based on 0 successful single runs" and *mixedpower*/*R2power* crashes!

Error Message:

```
"Estimating power for step:" [1] XY [1] "Simulations for step XY are
based on 0 successful single runs" Error in apply(store_simulations,
MARGIN = 1, FUN = mean, na.rm = T) : dim(X) must have a positive
length
```

Usually, this error message indicates that the *mixedpower* functions cannot simulate new data sets based on the information that is provided to *mixedpower()* or *R2power()*.

One common cause is modifying data **inside** an *lme4* function (e.g., *glmer()* or *lmer()*) — for example, centering or transforming a variable in the model's formula — that is then later passed onto one of the *mixedpower* functions.

This issue arises because *mixedpower* functions cannot use the model's formula to access relevant columns in the provided data. To solve this issue, avoid modifying data inside an *lme4* function.

As a rule of thumb: All data processing should be done **before** fitting the model with *lme4*.

3. “Cluster setup failed” error. What to do now?

```
Error in makePSOCKcluster(names = spec, ...) :  
  Cluster setup failed. X of Y workers failed to connect.
```

This error message is raised by the doParallel package, which is responsible for running simulations on multiple cores. This issue can usually be solved by updating **both** R and RStudio to the newest version.