

Import BI class

Before anything else, you need to import the BI class. This will allow you to create a BI object that will be used to : 1) import data, 2) define the model, 3) fit the model, 4) summarize the results, and 5) plot the results.

Python

```
from BI import bi  
m = bi()
```

R

```
library(BayesInference)  
m=importBI(platform='cpu')
```

Configures JAX for distributed computation

You can sets up the JAX computing environment by specifying the hardware platform and managing CPU core allocation. It also handles deallocation of existing devices and configures XLA flags appropriately.

Arguments:

- *platform*: str, optional The hardware platform to use for computation. Options include:
 - ‘cpu’: Use CPU(s) for computation
 - ‘gpu’: Use GPU(s) for computation
 - ‘tpu’: Use TPU(s) for computation Defaults to ‘cpu’

- *cores*: int, optional Number of CPU cores to allocate for computation. If None, all available CPU cores will be used. Only applicable when platform is ‘cpu’.
- *deallocate*: bool, optional Whether to deallocate any existing devices before setting up new configuration. Defaults to False.

Notes

This function must be called before any JAX imports or usage. It configures the XLA_FLAGS environment variable to specify the number of CPU cores to use. The XLA_FORCE_HOST_PLATFORM_DEVICE_COUNT flag is particularly important for properly distributing computation across multiple CPUs.

Examples

```
setup_device(platform='cpu')
Specifying CPU cores:
setup_device(platform='cpu', cores=4)
```