first Documentation

Release

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The header:

```
from ezsub import EZSUB
import numpy as np
```

Submit a single job:

```
# define macro parameters
so_easy = EZSUB(
                projectName="fheating",
                jobName="MC"
                )
# submit job with parameters T=2.26 and J=1.0
so_easy.submit(
                command = '~/.conda/envs/py35/bin/python main.py', # main.py is the␣
↪python script you want to submit
                fixedParameters = [('T',2.26), ('J',1.0)]
                )
```

Submit a multiple jobs:

```
# submit job with parameters T=[1.0,2.0,3.0,4.0] and J=1.0
so_easy.submit(
                command = '~/.conda/envs/py35/bin/python main.py',
                fixedParameters = [('J',1.0)],
                variableParameters = [('T', np.arange(1.0,4.01,1.0))]
                )
```

Submit multiple jobs, and have clear job name identifiers:

```
# define macro parameters and job identifier syntax
so_easy = EZSUB(
                projectName="fheating",
                jobName="MC",
                jobNameExtra=[("T","%.2f"),("J","%.1f")]
                # jobNameExtra specifies the format of the param. to track in the job␣
↪name
                )
 # submit job with parameters T=[1.0,2.0,3.0,4.0] and J=1.0
so_easy.submit(
                command = '~/.conda/envs/py35/bin/python main.py',
                fixedParameters = [('T',2.26), ('J',1.0)]
                )
```

CHAPTER

ONE

DOCUMENTATION

class ezsub.**EZSUB**(*projectName*, *jobName*, *jobNameExtra=None*, *wallTime=(2, 0, 0)*, *email=None*, *jobNumber=True*)

Python 3 script for easily submitting jobs on the SCC !

submit(*command*, *fixedParameters=None*, *variableParameters=None*)

fixedParameters: list of tuples = (string, float or int) specifies the fixed parameters passed to the command line. For instance, if parameter T takes values 2.26 and J takes values 1.0, this is specified as:

[("T",2.26),("J",1.0)]

This will be translated to: "T=2.26 J=1.0" on the commmand line.

variableParameters: list of tuples = (string, iterable) specifies the variable parameters passed to the command line. For instance, if parameter T takes values [1.0, 2.0, 2.26, 3.0] and J takes values [1.0, 1.1, 1.2], this is specified as:

[("T",[1.0, 2.0, 2.26, 3.0]),("J",np.arange(1.0, 1.21, 0.1))]

This will trigger a loop over the parameters, giving the command line the following series of parameters: "T=1.0 J=1.0" "T=1.0 J=1.1" "T=1.0 J=1.2" "T=2.0 J=1.0" ...

Some notes:

- maximum precision on float parameters is 3 decimal places
- format of specified parameters is always parameter=parameter_value, with parameter a string and parameter_value a numeric type

CHAPTER

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