



Project Setup

```
project = Project('alanine-example')
project = Initialize(AllegroCluster({options}))
pdb_file = File('initial.pdb')
engine = OpenMMEngine(pdb_file, ...)
```

set shared fs path and hpc specifics like module loading, etc

Run trajectory

```
traj1 = project.new_trajectory(initial=pdb_file, length=100)
task1 = engine.run(traj1)
project.queue(task)
```

pick pdb_file as initial coordinates

From frame

```
traj2 = project.new_trajectory(initial=traj1[28], length=50)
project.queue(traj2)
```

pick frame 28 from traj1 as initial coordinates

a shortcut that will generate the task

Submit worker

```
adaptivemdworker -d {path_to_db} alanine-example
```

Make strategy

```
@event
def strategy(length, loops):
    for _ in range(loops):
        new_frames = {your way to pick new frames}
        trajs = [project.new_trajectory(f, length) for f in new_frames]
        tasks = [engine.run(t) for t in trajs]
        project.queue(tasks)
        yield [x.is_done for x in tasks]

project.add_event(strategy(100, 10))
```

runs asynchronously

use yield to halt execution until all given functions evaluate to true, then continue

```
if all(x.is_done() for x in tasks) -> continue
```

Status

pre-alpha release

first beta planned for end of march

GitHub

currently python 2.7

feel free to contribute

<https://github.com/markovmodel/adaptivemd>

Installation

to get the latest version

```
git clone https://github.com/markovmodel/adaptivemd.git
cd adaptivemd/
python setup.py install
```

if you are using conda (not the latest version)

```
conda install -c omnia adaptivemd-dev
```