This document is a short guide in how to get BenchMARL up and running together with the information relaying environment implemented in PettingZoo. BenchMARL can be installed from: https://github.com/facebookresearch/BenchMARL.

There are several files that need to be placed in some locations in the BenchMARL directory. These files (except the information relaying environment files) are all located inside the folder benchmarl_integration. The address inside BenchMARL (once installed from their github) that each file from benchmarl_integration should be transferred to is listed below:

- Inside benchmarl/conf/experiment/base_experiment.yaml, the hyperparameters for each experiment can be changed. Change prefer_continuous_actions to False, The remaining parameters can be changed as preferred.
- Put the conf-task/customenv folder inside benchmarl/conf/task
- Put the environments/customenv folder inside benchmarl/environments. Also put the files Info_relay_env_v2.py and Info_relay_classes.py from the information relaying implementation into this folder in BenchMARL.
- Inside benchmarl/environments/__init__.py, add CustomEnvTask to the list of tasks.
- If confidence intervals should be calculated - replace benchmarl/experiment/logger.py with logger.py from benchmarl_integration.
- evaluate.py can be used to run some evaluations after training has been completed. Put in the benchmarl/ folder.

Furthermore, it is also possible to change the configurations of the training algorithms and environment using the conf/ directory. This folder is split up into algorithm, experiment, model, and task, which all contain .yaml files that can be changed to alter hyperparameters. For a guide on how to run experiments using BenchMARL, please see the BenchMARL git repo.