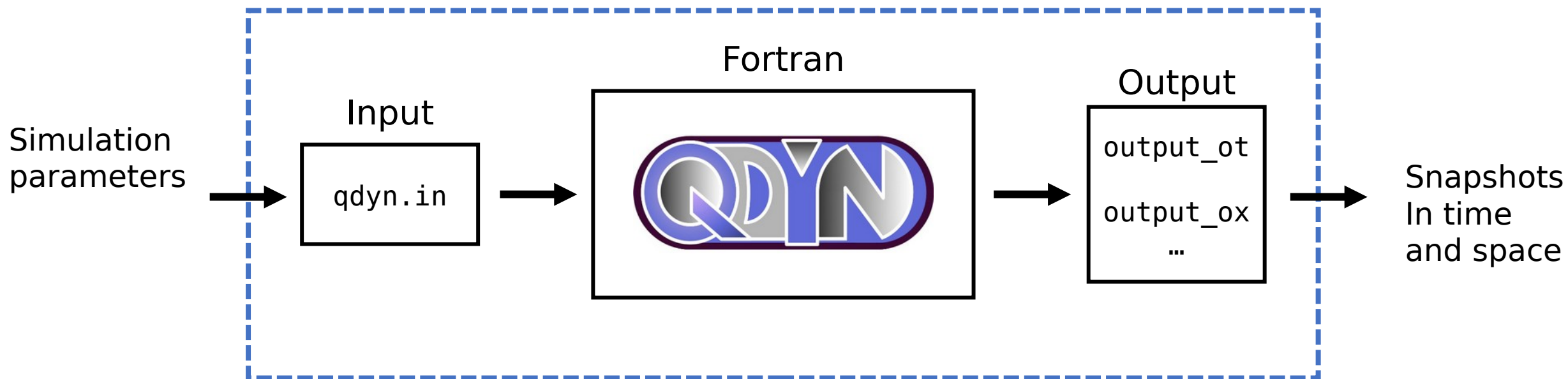


ICTP_2023 - Tutorial for Workshop on Mechanics of the Earthquake Cycle | (smr 3885), Trieste, ITALY

- The examples in this tutorial simulate earthquake cycles (seismic and aseismic slip on tectonic faults) under the quasi-dynamic approximation (quasi-static elasticity combined with radiation damping) on faults governed by rate-and-state friction and embedded in elastic media.
- For this purpose, we use QDYN Fortran code with Python wrapper <https://ydluo.github.io/qdyn/>.
- You may find the necessary compilation steps and exercises in https://github.com/eyupsopaci/ICTP_2023.

Wrapper: pyqdyn.py



Instructions



- Open terminal (Ctrl+Alt+T)

Command: `git clone --single-branch --
branch release/3.0.0
https://github.com/ydluo/qdyn`

- Command: `cd ~/qdyn/qdyn`
- Command: `make clean && make`

Instructions

- Open terminal (Ctrl+Alt+t)
- Command: `pip install numpy scipy pandas matplotlib termcolor`
- Command: `git clone https://github.com/eyupsopaci/ICTP_2023`
- Command: `cd ICTP_2023`
- Command: `jupyter notebook`

Ready to go...

