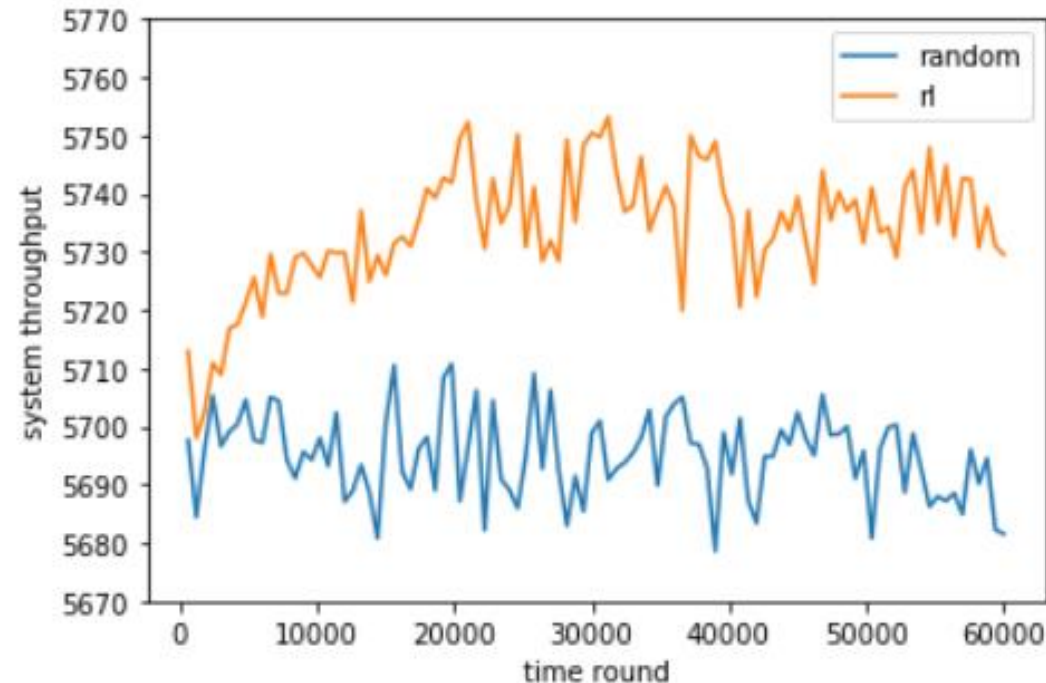# Experiment Modification

2018 1.2
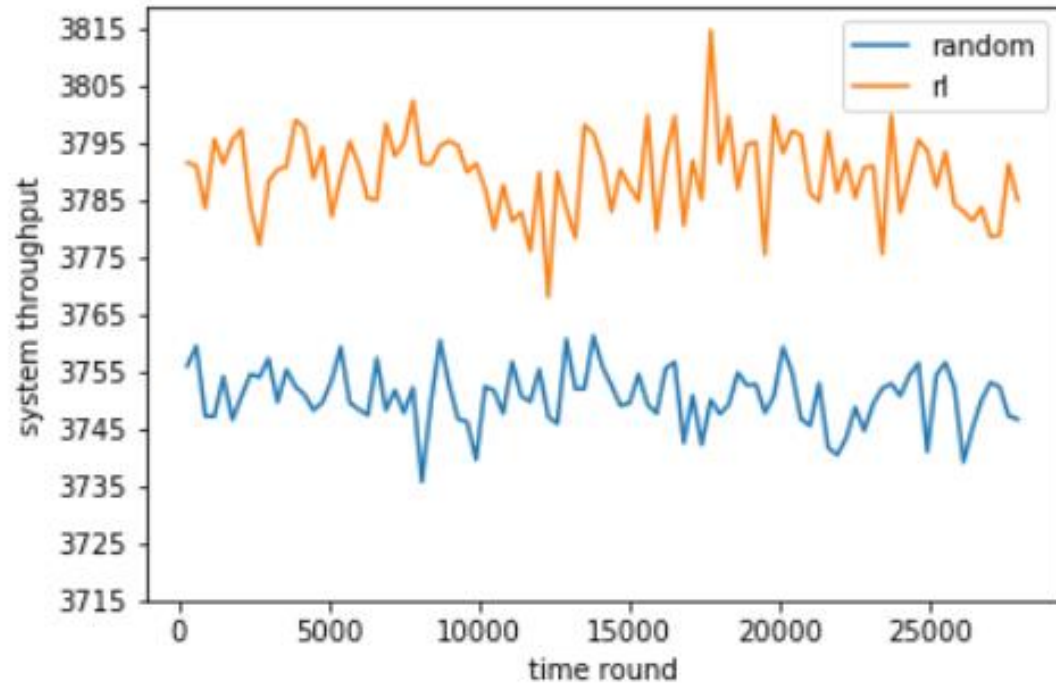
In order to make the experiment converges to a stable state:

- Change the link load following vertical hierarchical relationship.
- Apply $\varepsilon - greedy$ to choose an action.
    - ε set to be 0.1
- Apply **experience replay** to the learning process. Randomly sample from 10 latest <s, a, r, s'> pairs.
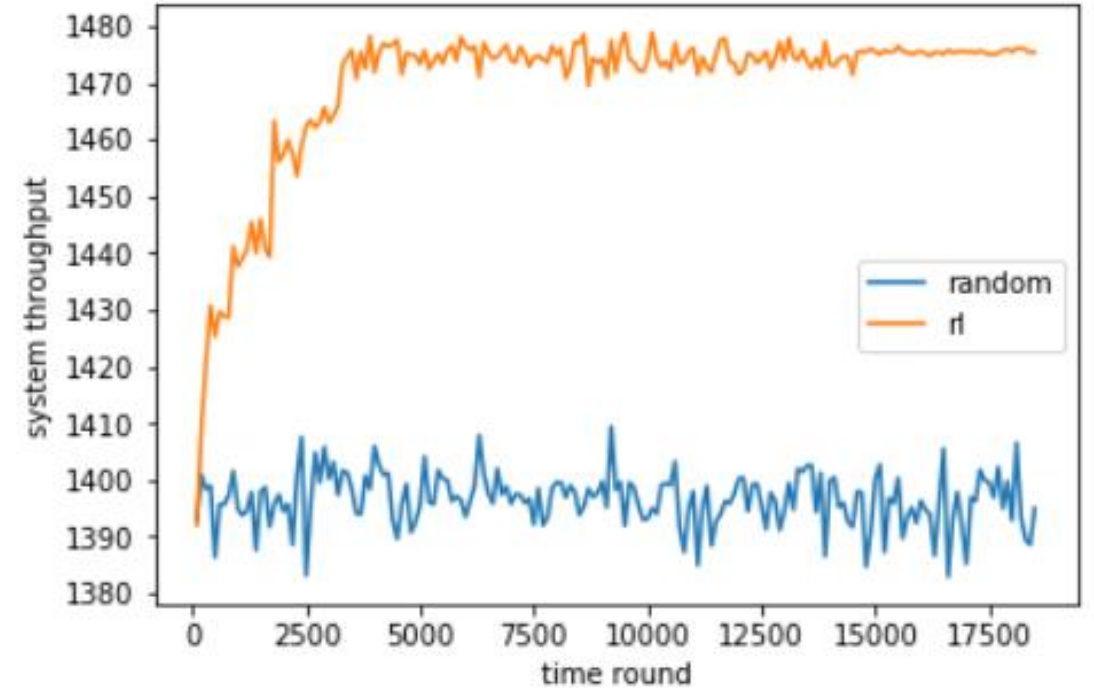
Try network topology with 1000 flows:

Try network topology with 500 flows:

Try network topology with only 100 flows:

When the number of flows is around 100. It takes one-day's training to converge to the stable state with tiny oscillations.