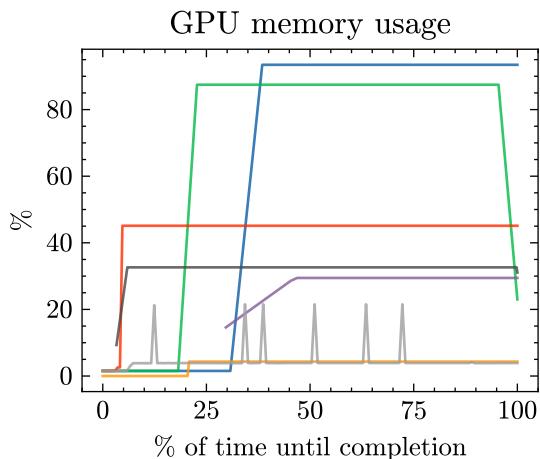
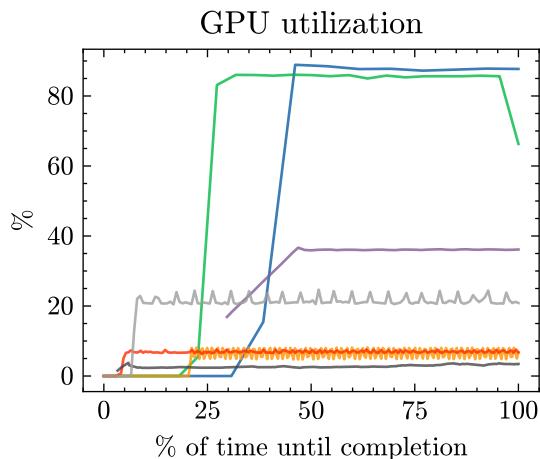
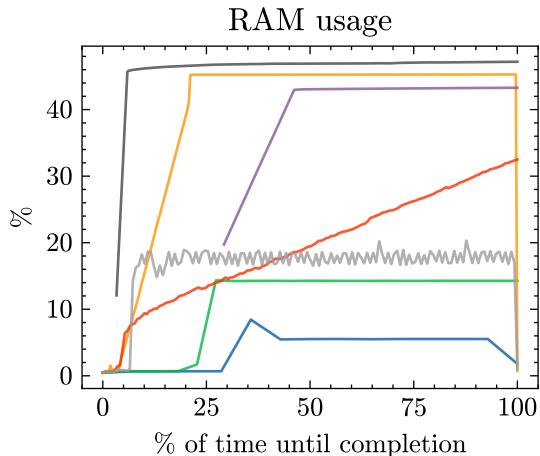
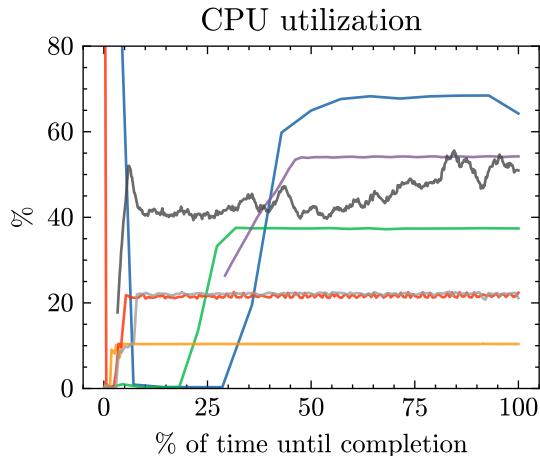


# System metrics for CIFAR10 comparison benchmark (1 GPU, optimal num processes)

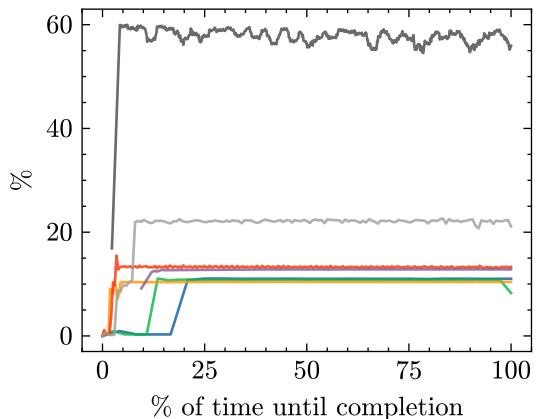


Legend:

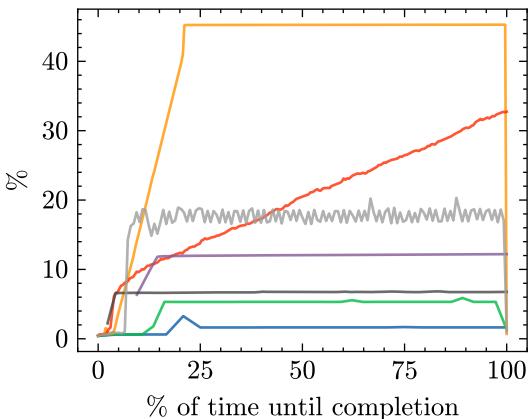
- pfl Pytorch 4p
- TFF 10p
- FedScale 10p
- pfl TF 4p
- Flower 10p
- FLUTE 1p
- FedML 1p

# System metrics for CIFAR10 comparison benchmark (1 GPU, 1 process)

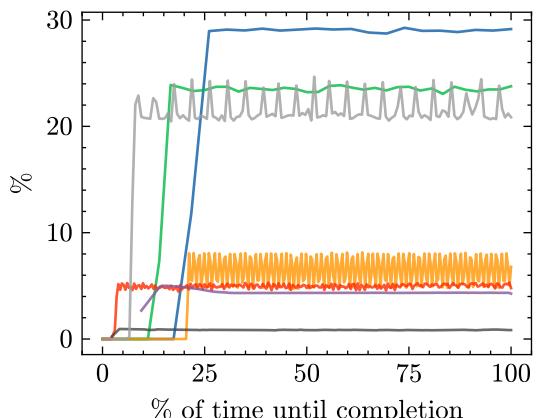
## CPU utilization



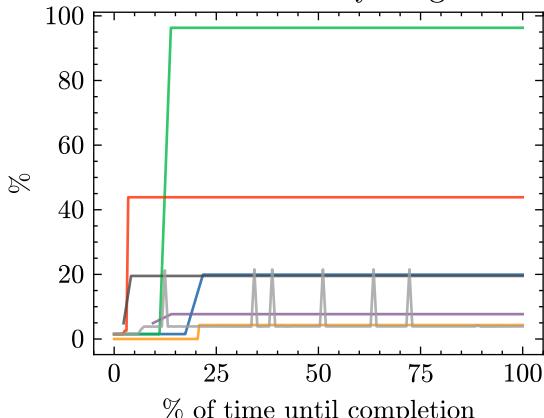
## RAM usage



## GPU utilization



## GPU memory usage



— pfl Pytorch

— TFF

— FedScale

— pfl TF

— Flower

— FLUTE

— FedML