Task State
- Blocked (gray)
- Ready (green)
- Running (blue)
- Main thread (magenta)

Pthread & stack from
- OMP
- nOS-V

Runtime component from
- OMP
- nOS-V
- TAMPI

Ready Queue

Polling service
- MPI Req
- MPI Req
- MPI Req

nOS-V Task Scheduler

Pause

Ready

Schedule

Submit

Dep. System
DAG

Complete Release deps

nOS-V CPU Manager
- MAIN | CPU
- T1 | CPU
- T3 | CPU
- T4 | CPU

Create/Pause

Blocked/Paused Tasks

switch_to

nOS-V Thread Manager