MPI thread

- check for pendingTasks
- pendingTasks
- broadcast task
- short task? — No → (Worker thread) execute task
  - Yes → execute task → mpi gather result → store result for later retrival

Flask thread

- in-bound REST request
- local only?
  - Yes → short task?
    - Yes → execute task → REST answer with result
    - No → REST answer without result
  - No → store relevant information → REST answer without result
- (store relevant information → pendingTasks)

Worker thread

- execute task → store result for later retrival
- execute task → store result for later mpi gather → store relevant information in pendingTasks for a short task (mpi gather)