## Faul t-Tol erance in Pregel

## Checkpointing

- Periodically, master instructs the workers to save state of their partitions to persistent storage
  - e.g., Vertex values, edge values, incoming messages

## Failure detection

• Using periodic "ping" messages from master → worker

## Recovery

- The master reassigns graph partitions to the currently available workers
- The workers all reload their partition state from most recent available checkpoint

