What is threadpool?

- A parallel programming backend for R

- Resource allocation is done with a *thread pool*

- Particular instance of a tuple space implementation

- Underlying data structures use on-disk queues

- Under-underlying database is LMDB: Lightweight; can do transactions with blocking

threadpool Features

- **Dynamic resource allocation**: The pool of compute resources can grow or shrink over time

- **Automatic load balancing**: Large tasks (or slow resources) do not hold up processing of other tasks

- **Restartability / Persistence**: Jobs can be stopped and pick up where they left off

- **Dynamic job resizing**: Tasks can be added to jobs with out having to start from the beginning