

Inclusion Dependency Discovery in Akka

Robin Schumacher

Tobias Altenbrand

Short overview about the flow

- Dependency Miner calculates in the handle(BatchMessage) method the combinations and stores it locally
- Dependency Worker notifies the Receptionist that it is created
- Receptionist notifies the Dependency Miner about a new worker
- Dependency Miner assigns the Dependency Worker a new job
- Dependency Worker requests the data for the job, if the data is not yet saved in the worker
- Dependency Miner sends the requested data to the worker
- Dependency Worker checks the given combination and sends a completion message
- Dependency Miner receives the result and assign a new task
- If all tasks are executed the Dependency Miner sends the stop signal

Further improvements

- Distribution logic of the jobs depending on the already transferred data to the worker
- Implement a data holder as singleton in every Akka process