



Decentralized Control flow:

- i. Async-re.py is used to set the job descriptions and launch the BigJob.py(BigJob Manager) which posts the job description to the advert service.
- ii. As and when a BigJob becomes active, BigJob.py launches the BigJob agents.
- iii. The bigjob agents poll for jobs in the advert server and allocate the resources to the subjobs
- iv. The subjob in this case is the replica agent. The replica agents are now launched
- v. The replica agents launch their respective replicas and monitor them
- vi. the replica agent collects the results and posts them to the advert server.
- vii. the replica agents also query the advert server and if they find a matching replica, they negotiate an exchange
- viii. the async-re.py continuously queries/updates the exchange count and when the required number of exchanges complete, the experiment ends.