

Scheduling & Resource management

- Serverless increases programmer productivity, offers seemingly infinite scalability
- Interest from different domains
 - **Edge-Triggered** applications: e.g. Web apps, backends, data preprocessing
 - **Massively Parallel** applications: e.g. MapReduce, Stream Processing
- Serverless offers cost benefits: 20¢ per 1M lambda requests
 - Ex-Camera [NSDI'17] **serverless** video encoding is **60x** faster and **6x** cheaper than VM based (**serverful**) solution.
- Interest in serverless computing will rise. For a viable service:
 - **Efficient** resource usage **@ scale** is important for the **provider**
 - **Reasonable** performance is important for the **user**