

UCC Release Roadmap

UCC v1.0 Expected to Release Q3 2021

- v0.1.0 Early Release (Branched Q1 2021)
 - Support for most collectives required by parallel programming models
 - Many algorithms to support various data sizes, types, and system configurations
 - Support for CPU and GPU collectives
 - Testing infrastructure
 - Unit tests, profiling, and performance tests
 - Support for MPI and PyTorch (via Third-party plugin)
- Expected July 31st.
- v1.0 Stable Release (Expected SC 2021)
 - Incorporate feedback from v0.1.0 release
 - Support for OpenSHMEM with one-sided collectives and active sets
 - Hardware collectives - support for SHARP
 - Support for more optimized collectives (hierarchical/ reactive)
 - Infrastructure for pipelining, task management , and customization (algorithm selection)
 - Persistent collectives
- v1.x Series: Focus on stability, performance and scalability
 - Support for DPUs and DPAs
 - Partitioned collectives
 - OpenSHMEM Teams and nonblocking collectives

UCC v1.0 Release Timeline

- v0.1.0 release – July 31st, 2021
- v1.0 release feature freeze and release branch
– August 30th, 2021
- v1.0 rc1 – October 15th, 2021
- v1.0 release November 5th, 2021 (before SC
21)