Habanero-UPC++

Habanero-UPC++ is a compiler-free PGAS library (under development), which supports a tighter integration of intra-place and inter-place parallelism than standard hybrid programming approaches. This library implementation is based on a tight integration of the UPC++ and Habanero-C++ library, with new extensions to support the integration. The UPC++ library is used to provide PGAS communication and function using the GASNet, and the Habanero-C++ library is used to provide support for intra-place work-stealing integrated with function shipping and asynchronous remote copy.

Habanero-C++ provides `finish-async` style dynamic tasking and is build on top of HClib and OCR. A detailed overview of Habanero-UPC++ can be found here.