

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](#).