



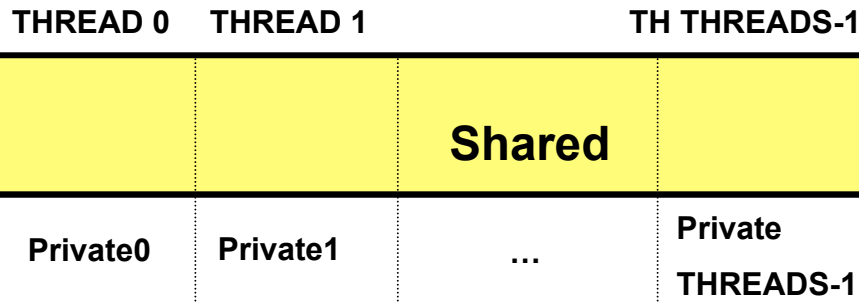
UPC: Unified Parallel C

upc.gwu.edu



Programming Model

- An explicit parallel extension of ISO C following the PGAS model



Execution Model

- A number of threads working independently in a SPMD fashion
 - MYTHREAD from(0..to THREADS-1)
- Synchronization: Barriers, Locks, Memory consistency

Compilers & Tools

- Platforms supported: HP, Cray, SGI, IBM, Sun/Solaris, x86/x86_64, Itanium, PowerPC
- Compilers available: Intrepid GCC/UPC, Berkeley UPC, MTU MuPC, HP UPC, IBM UPC, Cray Programming Environment, ...
- Tools available : PPW, totalview, ...

Resources

- Documentations, Compilers, Tutorials, Testing suites, Benchmarking Suites, Wiki
- UPC Textbook
- Consortium: Berkeley, GWU, MTU, UF, DoD, IDA, ANL, ARSC, LBNL, SNL, Cray, HP, IBM, Intrepid, ...