



**system**

**User-space**

POSIX, OpenMP, OpenCL etc.

**OS**

Real-Time Operating System

**Low-Level  
Library**

Libnoc, Librouting, Libpower

**Hardware  
abstraction**

Abstraction Package

**Hardware**

MPPA  
I/O Cluster #0-1

MPPA  
Compute Cluster #1-16

NoC