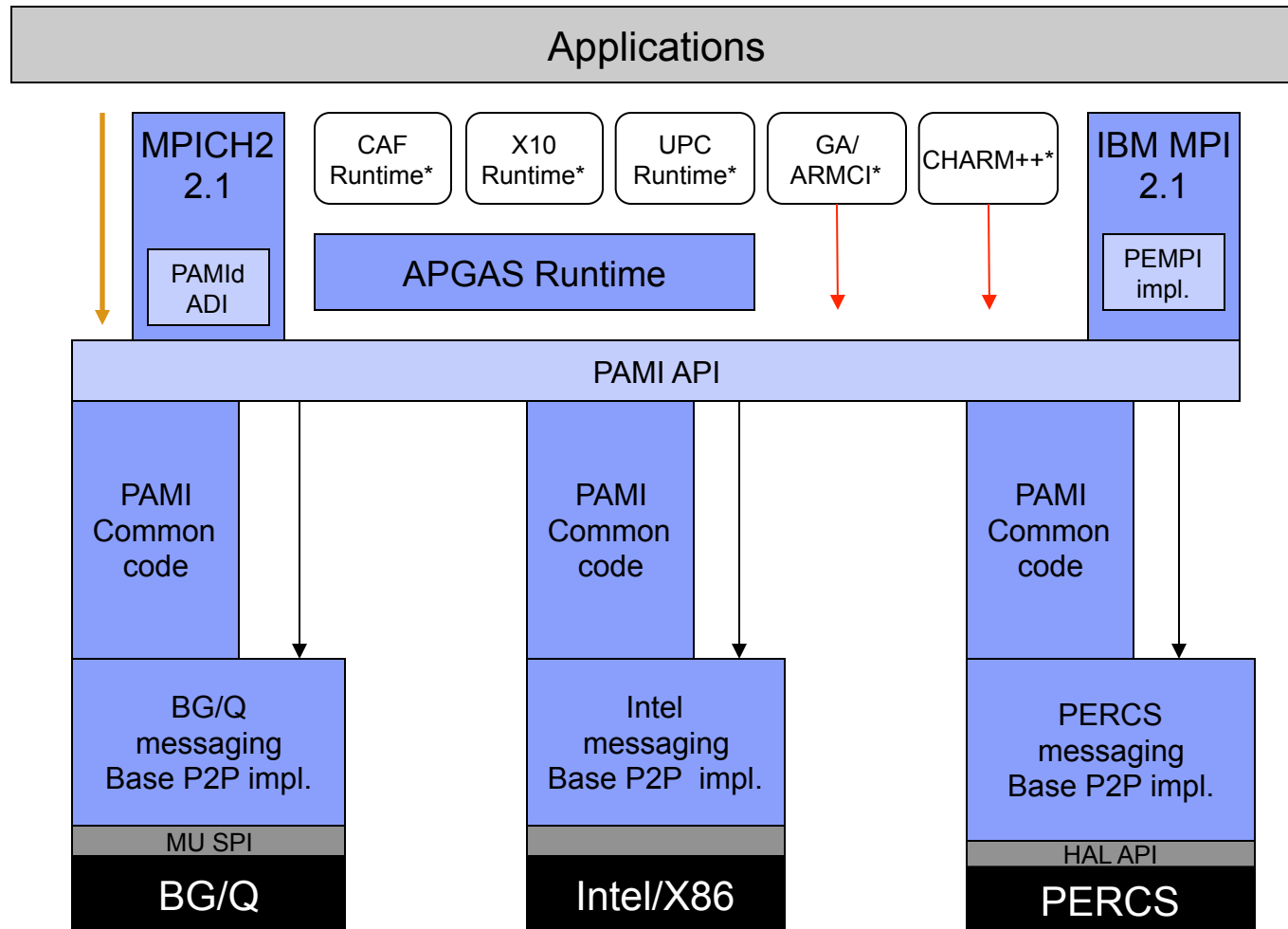# SC'12 MPI Forum – IBM status
MPICH2/PAMI status
BG/Q, Power and x86

Chulho Kim
Mark Atkins

PAMI – Unified Messaging Layer Architecture Goal

MPICH2/PAMI usage in Top15 of November 2012 List

- MPICH2/PAMI on BG/Q – #2, #4, #5, #9
  - Largest MPI scaling to ~1.6M ranks/cores
- MPICH2/PAMI on x86 – #6, #13
  - Largest MPI scaling to ~160K ranks/cores
- PEMPI/PAMI on Power775 – #10
  - Largest MPI scaling to ~64K ranks/cores

NOTE: All the Linpack runs using single MPI task per core

PAMId (MPICH2 to PAMI API calls) is mostly common across all platforms and the PAMId common code have been contributed back to MPICH community

Goals for 2013+

- Provide MPICH2/PAMI on Power cluster which have IBM Parallel Environment Runtime Edition 1.2 installed
- Investigate MPICH MPI 3.0 support over PAMI to be delivered in phases across difference IBM platforms