

OpenAMP: “Open Asymmetric Multi-Processing” Project



Runtime coexistence and collaboration

Runtime hardware resource assignment

Resource sharing and IPC between runtimes

Control mechanisms to start and stop runtimes

Typical system: Linux + RTOS on one system-on-chip

www.openampproject.org



OpenAMP Project Intro

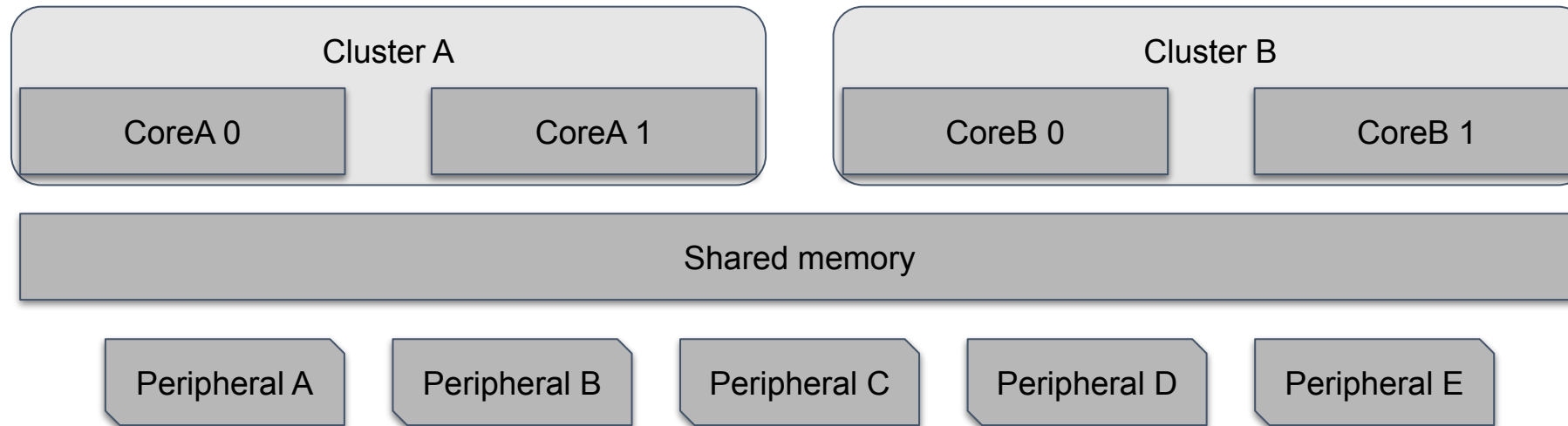
Standardizing Asymmetric Runtime Integration



OpenAMP Embedded Targets



Modern Embedded Targets integrate multiple HW resources, e.g. multiple core clusters, shared memory and peripherals



OpenAMP Embedded Runtimes



Embedded Targets have multiple Runtimes that need to collaborate

Linux + Apps

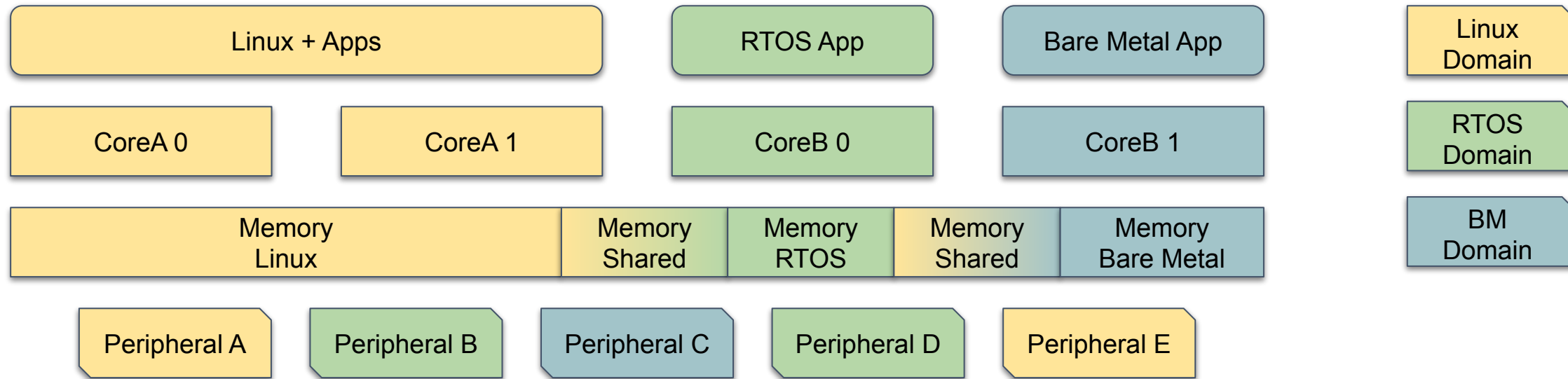
RTOS App

Bare Metal App

OpenAMP HW Assignment



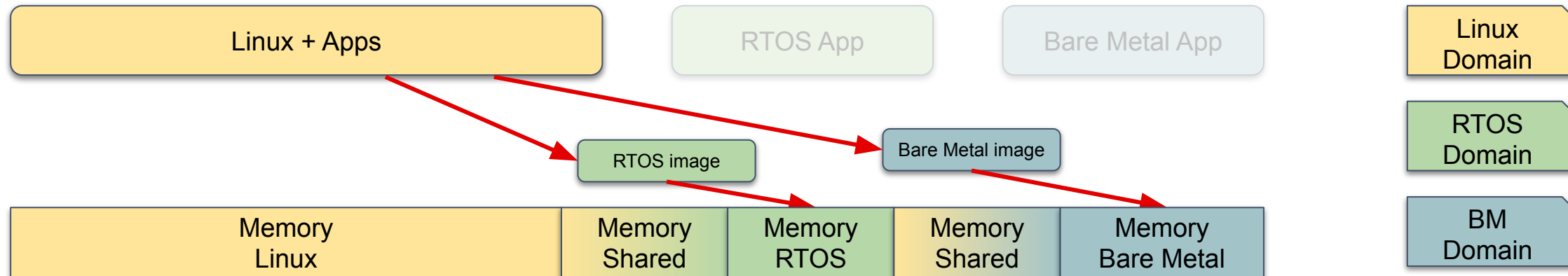
The HW resources need to be assigned into Runtime Domains



OpenAMP Runtime Control



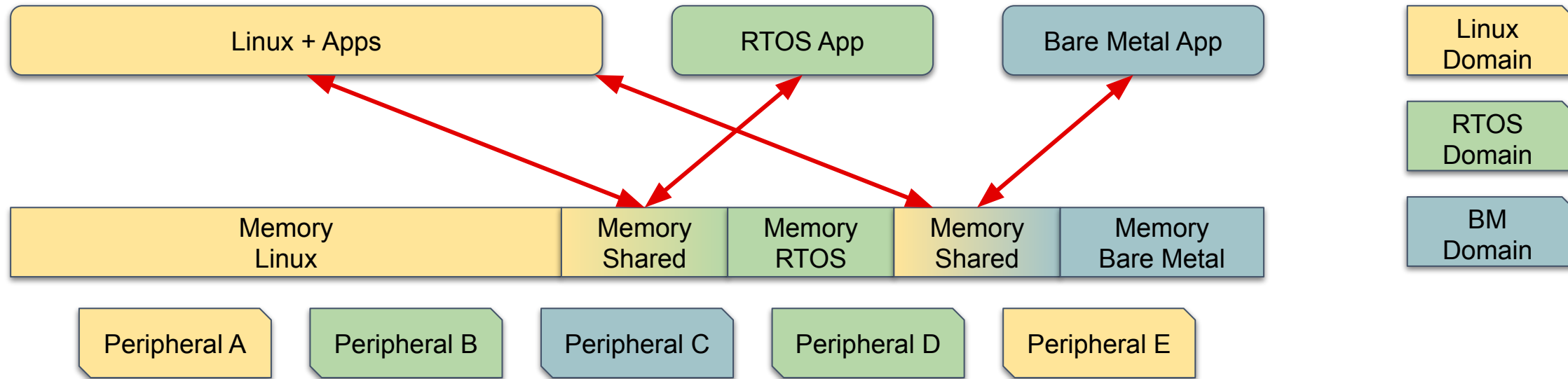
*The Runtimes need to be managed,
e.g. loaded into memory and started*



OpenAMP Resource Sharing and IPC



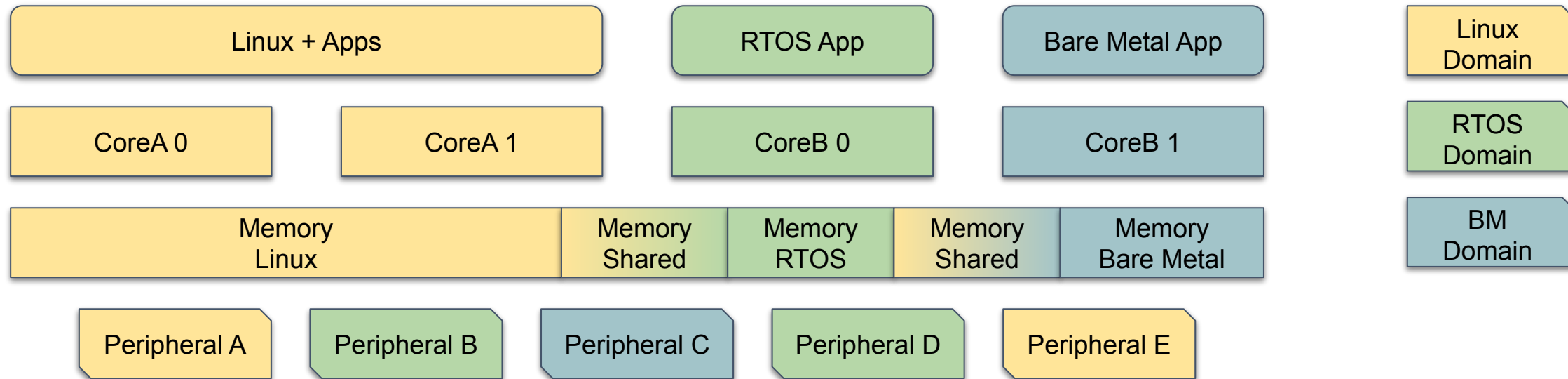
The Runtimes need to share data and services



OpenAMP Mission



OpenAMP provides standards, runtime libraries and tooling built on top of existing open source projects to simplify runtime collaboration

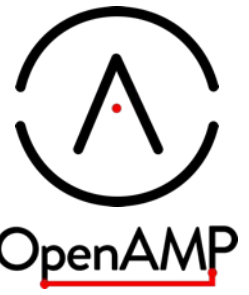


Check it out and get involved!



- Community Project Website
 - www.openampproject.org
-
- Contributing companies:





Thank You