OpenAMP Project Intro

Standardizing Asymmetric Runtime Integration

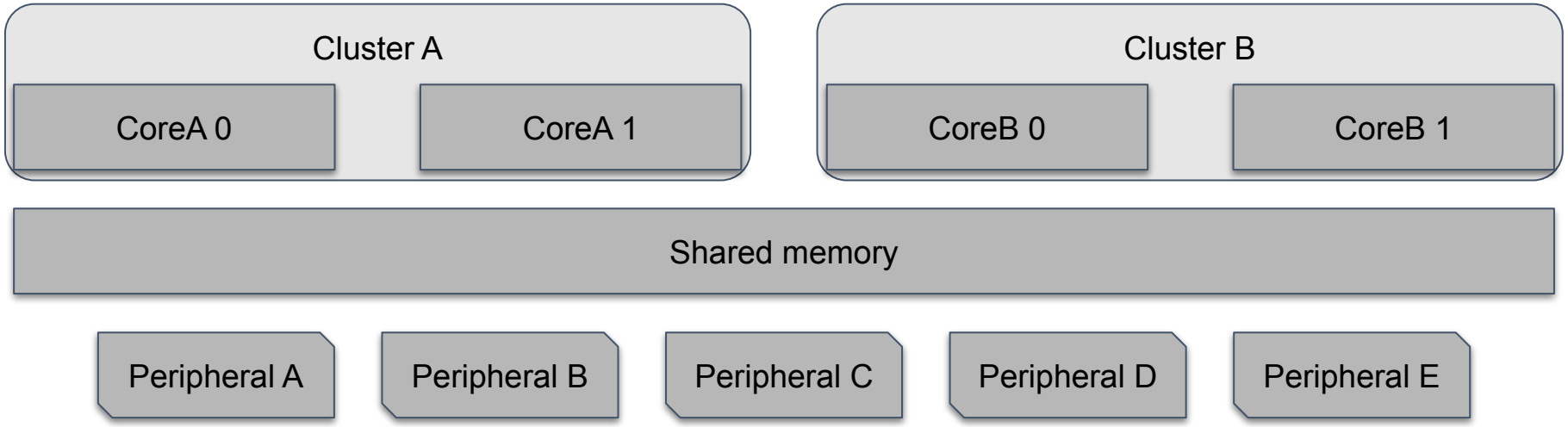
OpenAMP: “**Open A**symmetric **M**ulti-**P**rocessing” Project

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 Embedded Targets

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



OpenAMP Embedded Runtimes

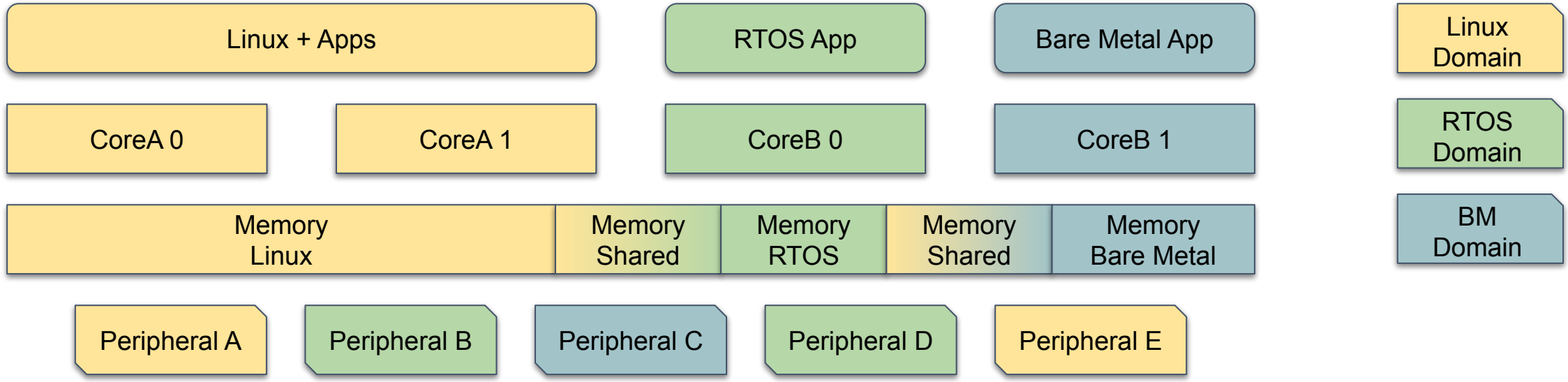
Embedded Targets have multiple Runtimes that need to collaborate

Linux + Apps

RTOS App

Bare Metal App

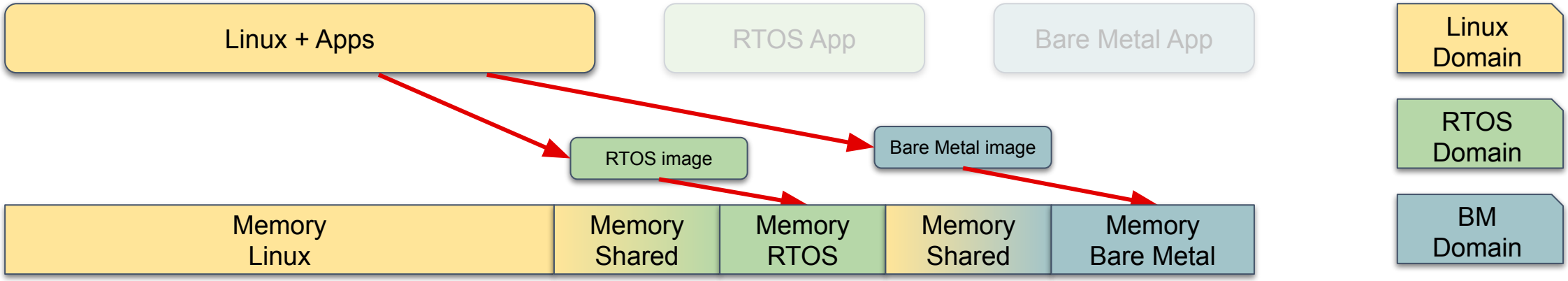
OpenAMP HW Assignment



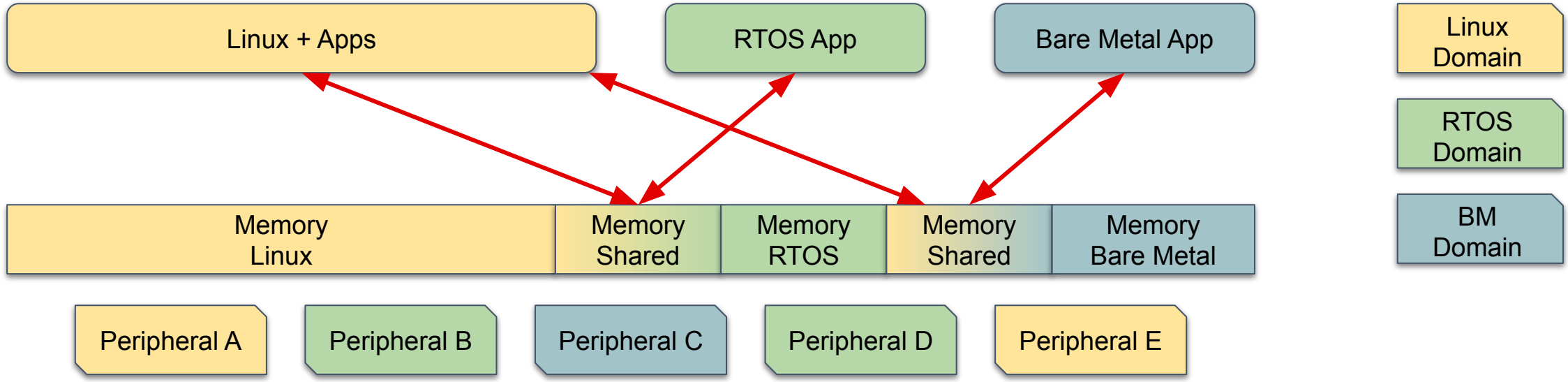
The HW resources need to be assigned into Runtime Domains

OpenAMP Runtime Control

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

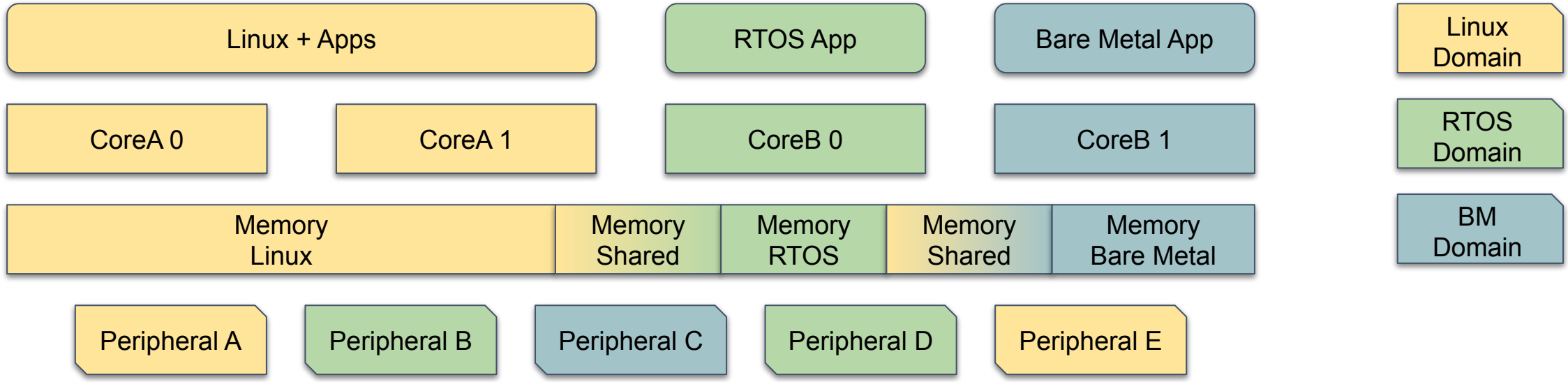


OpenAMP Resource Sharing and IPC



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