

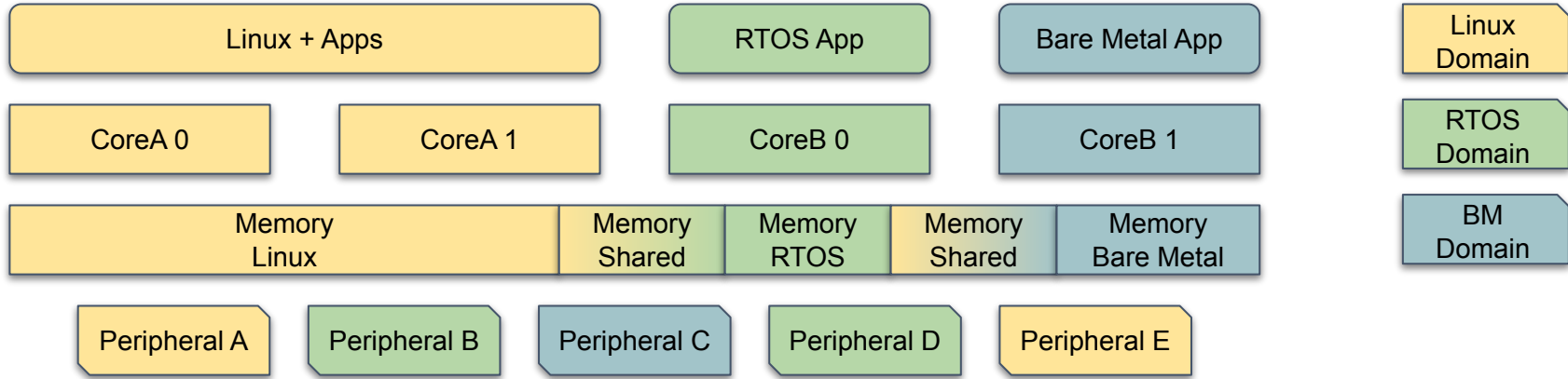
HPP: Heterogeneous Processing Project

Status Update

2022-05-04



HPP Scope & Technology



- Remoteproc & Rpmmsg
- Virtio between CPUs that do not share a hypervisor
- Demonstrate vendor independence and real world use cases

2022H1 Goals **new**

- Upstream Build for OpenAMP
 - Build OpenAMP for upstream kernel or staging kernel
 - Build Upstream libopenamp and libmetal
- CI for OpenAMP V1.0
 - Build full system on each PR (libs) or Patch series (kernel)
 - Trigger QEMU or board test runs
- Integrate hypervisorless virtio into OpenAMP CI
 - Build and test for each PR or commit
 - for Zephyr fork and kvmtool fork
- Demonstrate System Devicetree on Xilinx QEMU
- User Documentation and Demo
- Supported Boards
 - STMP157c-DK2 (works on STMP157f-DK2 also)
 - Xilinx ZCU102 in Xilinx fork of QEMU **and HW**
 - **Xilinx KV260**

Status Update

- Upstream builds working
 - Still need to upstream to OpenAMP github
- Prototyped testing
 - STMP157c-DK2 (works on STMP157f-DK2 also)
 - Xilinx ZCU102 HW
 - Xilinx KV260
- RTOS virtio is heating up
 - OpenAMP now has mission to host virtio technology for any RTOS
 - This include hypervisorless virtio AND traditional virtio to a hypervisor or emulator
 - HPP/Linaro resources were originally scoped only for integration
 - May make sense to expand HPP scope to help on the virtio mission.