

ARMv8-R Virtualization

Summary:

This course will discuss the motivations and use cases for Virtualization in realtime systems. It will provide an introduction to the features provided in the ARMv8-R Architecture to support the implementation of virtualizes systems.

Prerequisites:

- Familiarity with realtime system design
- Proficiency in C and assembly language programming

Audience:

Those who need to use the architectural features of ARMv8-R to support the design of systems using realtime Virtualization.

Length:

4 hours

Agenda:

- Introduction to realtime virtualization
- Overview of the ARMv8-R Architecture
- Memory management
- Virtual exceptions
- Device management
- Security and safety
- Real-time implications