HOT HEIDELBERG OSADL TALKS 2019

Technical HOT
September 24, 2019
Heidelberg/Germany

09:00 – 09:30	**Get-together**
09:30 - 11:00	History and functionality of Linux and real-time Linux • Real-time extensions compared to PREEMPT_RT • Functionalities of PREEMPT_RT • Linux Foundation RTL Collaborative Project, etc
11:00 – 11:30	**Coffee break**
11:30 – 13:00	Debug and trace interface of the Linux kernel and why it is important for real-time (partly hands-on session if requested) • Function tracing • Event tracing • Latency tracing • Principle of backtracking
13:00 – 14:00	**Lunch break**
14:00 – 15:00	Determination of the real-time properties of a Linux system, presentation of the OSADL QA Farm • Latency testing • Latency plots • Latency recording • Hardware latency detector • Quality test center
15:00 – 15:30	**Coffee break**
15:30 – 17:00	What causes system latencies? (partly hands-on session if requested) • Generator of artificial latency • Crash analysis including post-mortem debugging • Various methods to trigger system data dump
Approx. 17:00	**End of Technical HOT**

Speakers: Dr. Carsten Emde and Caren Kresse, OSADL