## Technical Workshop: Real-time Linux Latency Fighting

### March 26, 2019

**TP ConferenceCenter im Technologiepark Heidelberg**
**Im Neuenheimer Feld 582, 69120 Heidelberg**

| | |
|---|---|
| *08:30 – 09:00* | *Get-together* |
| 09:00 – 10:30 | Linux kernel debug and trace interface<br>1. Raw access to the variables of the debug file system<br>2. Using command line tools<br>3. Using the graphical user interface |
| *10:30 – 11:00* | *Coffee break* |
| 11:00 – 12:30 | Latency monitoring I:<br>1. Standard methods to define a system's worst-case latency<br>2. Special methods to monitor real-time capabilities of a system<br>3. The real-time framework of the OSADL QA Farm |
| *12:30 – 13:30* | *Lunch break* |
| 13:30 – 15:00 | Latency monitoring II:<br>1. Calibrating latency detection<br>2. Analysis of a deliberately created latency<br>3. The breaktrace functionality of cyclictest |
| *15:00 – 15:30* | *Coffee break* |
| 15:30 – 17:00 | Everyday's practice of a latency fighter<br>1. Typical mistakes that may lead to prolonged latency values<br>2. Recently discovered sources of latency and fixes or workarounds<br>3. Live latency fighting* |
| 17:00 – 17:30 | Discussion, questions, answers |
| *17:30* | *End of workshop* |

\* Participants are encouraged to take along with them, if possible, particular equipment that suffers from unexpected prolonged latency values.