1. Work: National Instruments
2. PREEMPT\_RT: this is the real-time kernel patch. This makes Linux into a real-time system.
3. Mixed criticality is when you want to run both real time and non-real time applications.
4. The driver misbehave due to the driver stacks being shared
5. Different between event time to application time
6. Cyclictest is a test where you repeatedly take samples of time that are separated by some duration and use them to determine latency.
7. Plot 2 give the difference between the actual time duration and the expected time duration for both preempt and preempt\_rt.
8. Dispatch latency: the time between hardware firing and the interrupt dispatch occurring. Schedule latency: the time between a task being scheduled and it being executed.
9. It is the kernel in which you can pull from with no additional requirements
10. The low priority event has to finish before the high priority event fires due to the high priority event not being scheduled on the cpu.
11. It can start sooner due to it executing in threads which can be preemptive