ANOMALY DETECTION USING HARDWARE PERFORMANCE COUNTERS ON A LARGE SCALE IOT DEPLOYMENT

Context :

• Deployment of secure and reliable energy management devices

Issues :

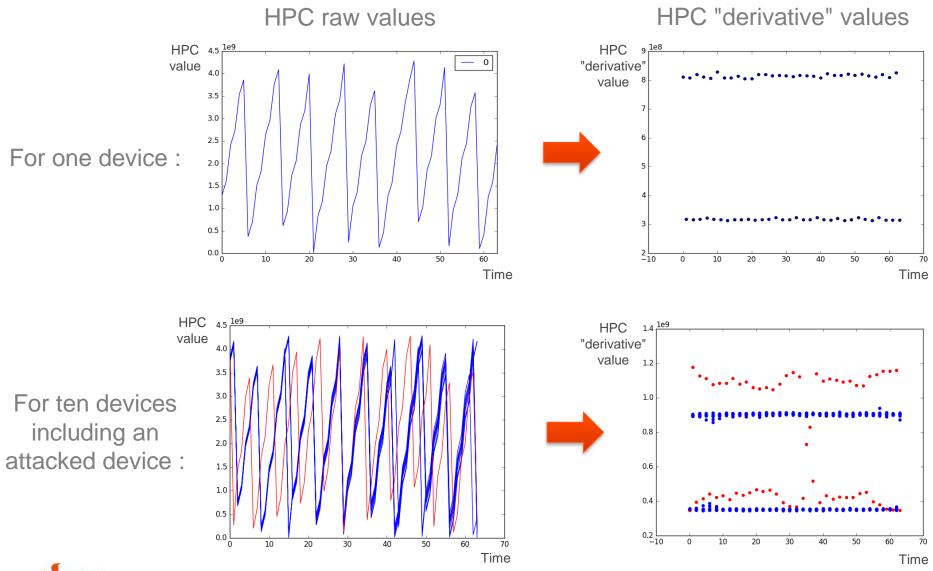
- Large scale deployment
- Resources constrained IoT devices
- Dynamic devices (updates)

Hypothesis & approach :

- Identical IoT devices
- Attacks on devices uses more resources
- Use HPC to characterize the software execution
- Anomaly detection based on comparative analysis only



HARDWARE PERFORMANCE COUNTERS ANALYSIS:



ARCHITECTURE AND TESTING PLATFORM :

