Coordinated, Synchronized Testing and Debugging of Distributed Embedded Systems

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Growing complexity of distributed systems
- Debugging nodes via dedicated, specialised interfaces (cables)
- Missing of distributed system character - loss of global system state
- Synchronisation of debugging actions between nodes is a problem
Problem solution

- Control activities from a central point (IDE) in the network
- Precisely synchronization among the embedded nodes
- World’s Smallest SYN1588 Fully Integrated Clock Synchronization
- Use existing network resources (no extra cabling)
- No debug cabling necessary, control nodes via network

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Key selling points

- Synchronized test in distributed network
- Test under real conditions, control all or cluster of nodes
- Independent from central processing unit – CPU
- Works in real- and non-real-time networks
- Synchronized clocks can be used for applications as well
- Integration into automatic test suits
- Produce faster test results
- Existing equipment with ethernet 100Mbit, eclipse and gdb

Patent-registered technique
Improve quality with patented measurement process.

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Partners involved

- University Vienna, Technikum
- aws, (Austrian Commerce Service)

Missing partners / expertise

- Automotive, Aerospace, Railway Industry, Broadcasting
- or industry uses distributed embedded systems

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Thank you for your attention
We value your opinion and questions