GSIL
SIL (Software in the Loop) Tool for ECU Software Development

- Early detection of code defects reduces code rework man-hours
- Works on a PC as a software simulation so ECU hardware is not required
- Development can be done remotely

Virtual ECU

Test, Communication
- CSV/ReadWriter
- CAN
- LIN
- Ethernet
- XCP
- FMU
- Python Test

GUI (iTest)

GSIL BUS

Virtual ECU
- ECU code (Application Layer)

Plant Model (Simulink etc.)
- Sensor
- Switch
- Signal etc.

Actuator
- control
- signal

vECU information file
- task info
- signal info

Test, Communication
- CSV/ReadWriter
- CAN
- LIN
- Ethernet
- XCP
- FMU
- Python Test

GUI (iTest)

Automation of verification

Existing HILS tools can be integrated

Utilization of existing HILS tools

Low cost due to easy environment creation and sharable license

Verifications can be automated by scripts and tool chain

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