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Press release

IPG Automotive and TraceTronic Intensify Partnership for Test of ADAS and Autonomous Driving Functions

Optimized interaction of platforms for seamless testing processes

Karlsruhe, November 23, 2022 – TraceTronic, solutions provider for automated testing of vehicle software, and IPG Automotive, specialist for vehicle simulation in the fields of advanced driver assistance systems and automated driving, optimize the synergy of their systems for a seamless test process at every stage of vehicle software development – from MIL, SIL, HIL to VIL.

The aim of the collaboration between IPG Automotive and TraceTronic is to link two software solutions closer together: CarMaker for virtual test driving, and the Automotive DevOps Platform for test automation and analysis. Both systems are developed further as a joint platform to optimally meet the growing requirements in test processes of software-defined vehicles.

With the seamless integration of the CarMaker product family into the automation tools from TraceTronic, extensive functionality tests for safety-relevant ADAS and AD systems can largely already be performed in the virtual environment. The applied test process is highly automated – from planning and execution to the evaluation of test cases.

The simulations are performed with particularly accurate virtual prototypes and in realistic scenarios. Simulation artifacts are highly reusable across various test environments such as MIL, SIL, HIL and VIL. The optimized simulation core



minimizes the necessary resources for big scale simulation studies and, at the same time, increases the level of detail for tests with real-time systems.

The integrated execution distribution automatically distributes test orders for new driving functions to available test resources – on HIL test benches as well as on highly scalable, distributed systems such as cloud and high performance clusters. In addition, freely configurable test reports provide sound feedback on changes in the software code and support detailed error analysis.

The seamless test process throughout all stages of testing therefore enables continuous testing even for complex and extensive ADAS/AD projects. Amongst other things, this shortens the release cycle and speeds up the development of new driving functions.

The close and customer-centric collaboration of both partners ensures that the latest developments are constantly incorporated into the test platform that has been set up.

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About TraceTronic

TraceTronic supports companies in the international automotive and supplier industry with software products and innovative solutions to develop and validate complex embedded systems in vehicles. Leveraging the latest technologies and methods as well as the seamless software toolchain, the company designs sustainable solutions for fully automated testing of ECU software on different platforms and seamlessly integrates them into existing process chains. The tools ECU-TEST, TRACE-CHECK and TEST-GUIDE as well as the toolchain-based Automotive DevOps Platform are used globally.

www.tracetronic.de

About IPG Automotive

IPG Automotive is an expert in the field of virtual development methods for the application areas of Autonomous Vehicles, ADAS, Powertrain and Vehicle Dynamics, committed to providing support to master the growing complexity in these domains. The solutions of the CarMaker product family are used at a global scale and help users master the challenges faced with when developing and testing autonomous vehicles. Highly precise vehicle models including detailed sensor models are integrated into a realistic environment and autonomous driving functions are validated in countless scenarios. By scaling simulation, millions of virtual tests can be performed and evaluated overnight.

www.ipg-automotive.com



Image

[IPG_PM_TraceTronic]



IPG Automotive and TraceTronic enable extensive functionality tests for safety-relevant ADAS and AD systems already in the virtual environment.
Image: IPG Automotive, TraceTronic

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