

Hybrid with dSPACE

Research institutes and industry working on alternative propulsion systems are increasingly turning to dSPACE tools, which have long been used for developing conventional drives. A variety of products are involved, from MicroAutoBox to networked systems of several hardware-in-the-loop (HIL) simulators. To show the wide range of different uses the tools are put to, here is a selection of customer projects:

Company	Application	dSPACE Product
General Motors	Network testing of ECUs for IC engines, electric motors, and high- voltage electrical systems in hybrid vehicles	Networked hardware-in-the-loop simulators
DaimlerChrysler AG	Developing a hybrid system	Two hardware-in-the-loop simulators
DaimlerChrysler AG	Generating code for an ECU controlling the electric motor of a hybrid truck	TargetLink
General Motors	Hybrid drives	Two networked hardware-in-the-loop simulators
ZF Sachs AG	Testing and developing drive components for hybrid drives	Hardware-in-the-loop simulator
Hyundai Motor Company	Developing a control algorithm for an ECU in a hybrid vehicle	MicroAutoBox
FEV Motorentechnik GmbH	Developing and testing optimization strategies for start-up and acceleration	Hardware-in-the-loop simulator
University of Munich	Optimizing energy management for a parallel hybrid drive concept	AutoBox with modular hardware
Ford	Verifying embedded controller software for a vehicle system controller (VSC) for the Ford Escape Hybrid and other hybrid electrical vehicles (HEVs)	Hardware-in-the-loop system

- Testing and developing hybrid drives
- A variety of dSPACE products used
- Excerpt from customer list

