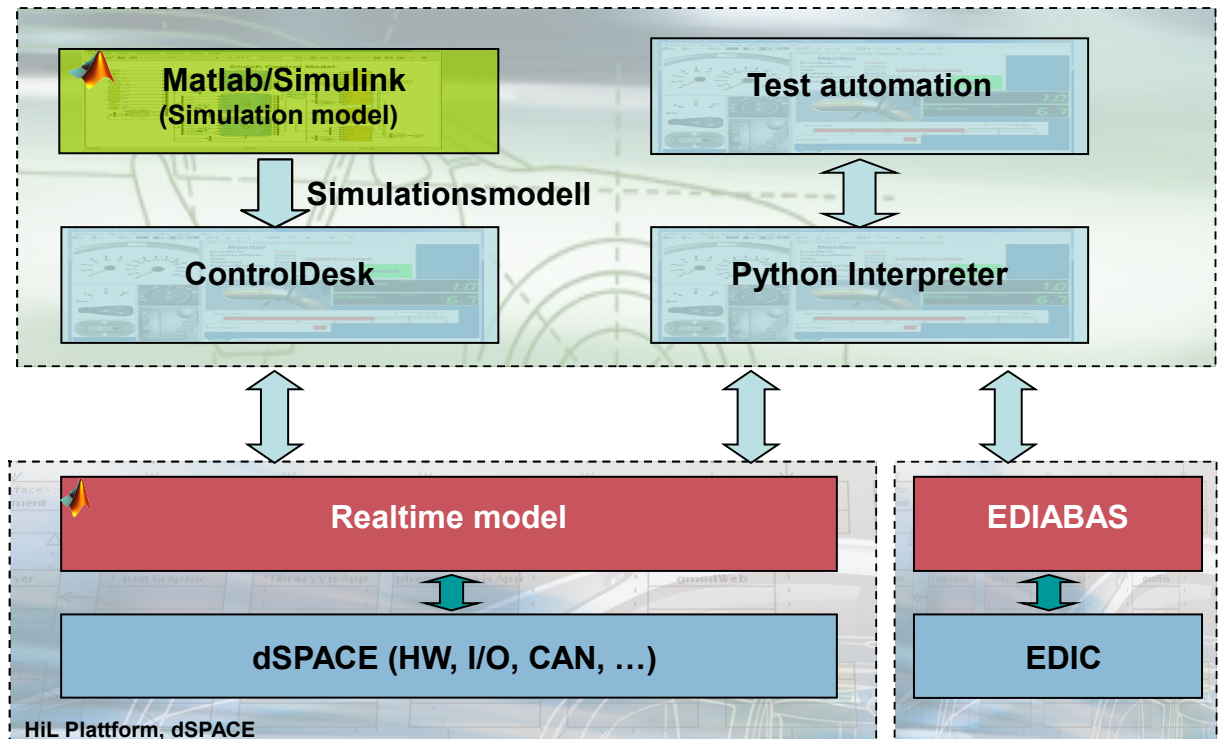
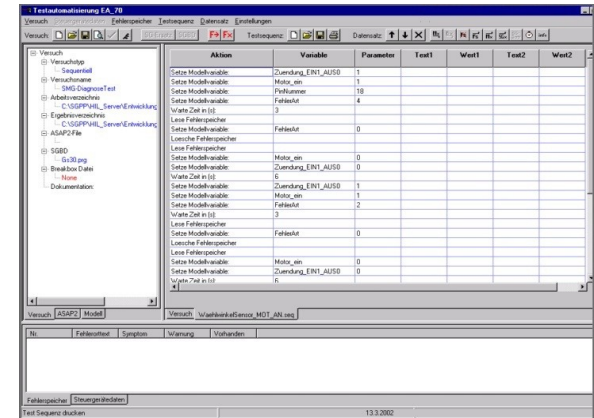
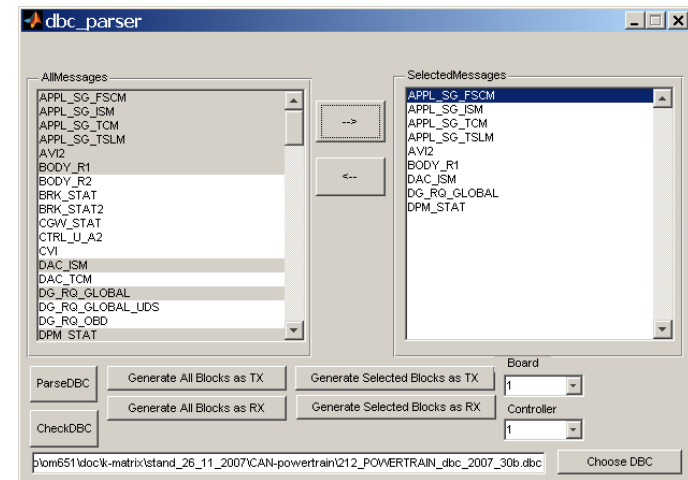


# Project examples: Test automation tool for HiL test system

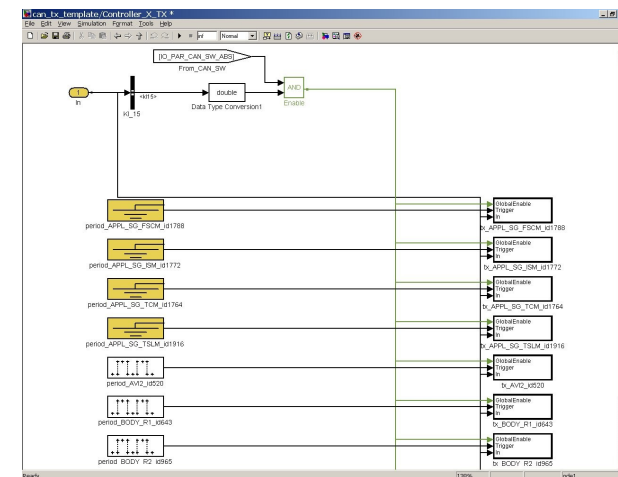
- Interface to the simulation model on the dSPACE platform
- Interface to the Diagnosis tool EDIABAS
- Standalone application in Python/wxPython.
- Sequential tests
- Test programming through GUI



- Check of the DBC files
- Parsing of the DBC files
- Choosing the needed CAN messages for the ECU to be tested
- Automatic generation of the needed TX- and RX-Blocks for the chosen CAN messages
- Generated Simulink blocks include:
  - Cycle times
  - Alive counter
  - Checksum calculation
  - Configured CAN driver blocks



Automatic generation  
of CAN simulation

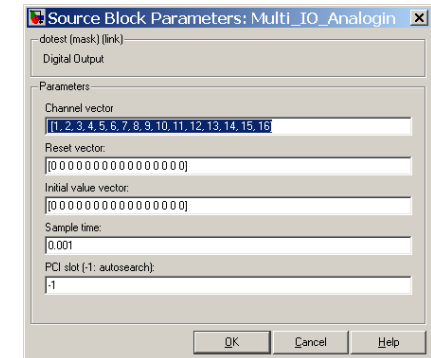
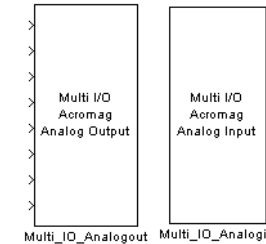


# Project examples: Driver for I/O cards in SIMULINK for xPC-Target



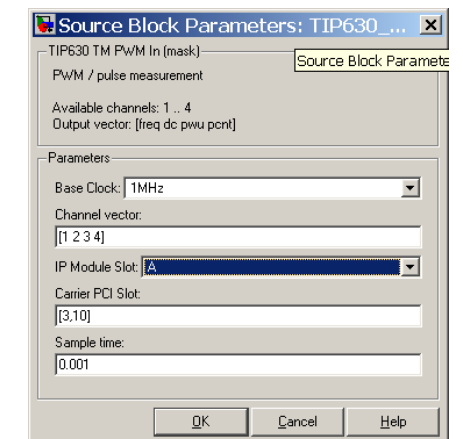
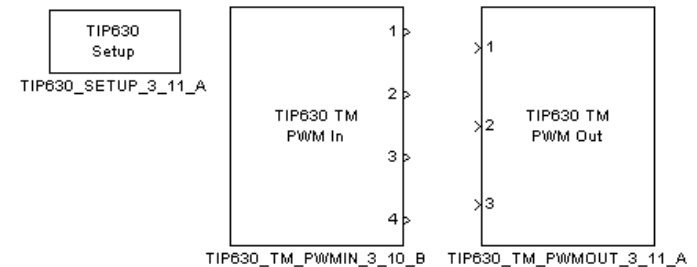
**Acromag AcPC730**

- 16 differential or 32 single-ended Analog Inputs, A/D Resolution 16 bits
- 8 Analog Output Channels  
D/A Resolution 16 bits  
Output range -10 to 10 V
- 16 Digital Input/Output Channels  
(direction selectable)



**Acromag IP231**

- 16 Analog Output
- D/A Resolution 16 bits
- Output range: -10 to 10 V



**Tews TIP710**

- IndustryPack
- 16 Digital Outputs
- includes optocouplers for galvanic isolation



**Tews TIP605**

- IndustryPack
- 16 Digital Inputs
- includes optocouplers for galvanic isolation

- Test automation in CANalyzer through CAPL Programming
- GUI for test control and monitoring
- Monitoring of the test component (EESS with BMS) and breakup by error
- Alerting the operator by Email and SMS
- Test report

