

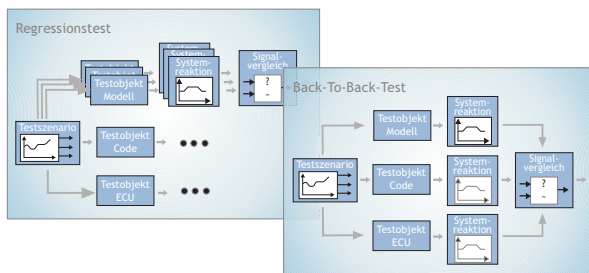
# MEval

Automated signal comparison in MATLAB®/Simulink®

## Overview

When developing software for electronic systems the need for an automatic test evaluation constantly grows. The increasing complexity of electronic systems demands a greater test effort and a large number of test artifacts.

Automation is beneficial when performing regression and back-to-back-tests in different development stages. Regression tests ensure that a model's or code's modifications do respect the required functionalities as has been proved before in previous versions. Back-to-back-tests establish the equivalence of different representations of the model, e.g. between the implementation model and the generated program code.



When performing those tests the validated data, for example from previous tests, serve as reference data for the following tests. Then, the current output signals of the test object have to be proved for their "similarity" compared with the reference data.

MEval supports the test evaluation in MATLAB/Simulink by automated signal comparison!

Now new release:  
MEval 1.5.1

- New variants of the preprocessing algorithm "Partition Synchronize on Trigger": Triggering on minima and minmax is now available.
- Optimized difference matrix algorithm
- Bugfixing in the MEval Batch GUI

## MEval's benefits

- Separated analysis of time shifts and deviations in amplitudes by multi-level procedure
- Preprocessing of the signals by controlled time shifts, partitioning and/or filtering
- Various kinds of difference methods and other standard methods used in signal comparison, e.g. absolute, relative or slope dependent difference
- Individual customization of the methods to your test situation by adjusting the method's parameters
- Recognition of local and global time shifts by the innovative difference matrix method
- Automated signal comparison at the push of a button
- Representation of the signal's preprocessing and the signal comparison in graphic and textual form in the evaluation report
- Test evaluation in batch or interactive mode
- Graphical, intuitive user interface

## Further information about MEval

### System requirements

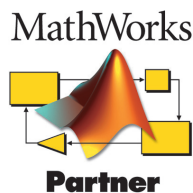
Windows NT 4.0 / 2000  
Windows XP (from MATLAB R13 on)  
MATLAB R12, R13 or R14

### Prototypical development by DaimlerChrysler AG

MEval's algorithms and a prototype were developed in the labor software technology by the research department of the DaimlerChrysler AG in Berlin (Germany).

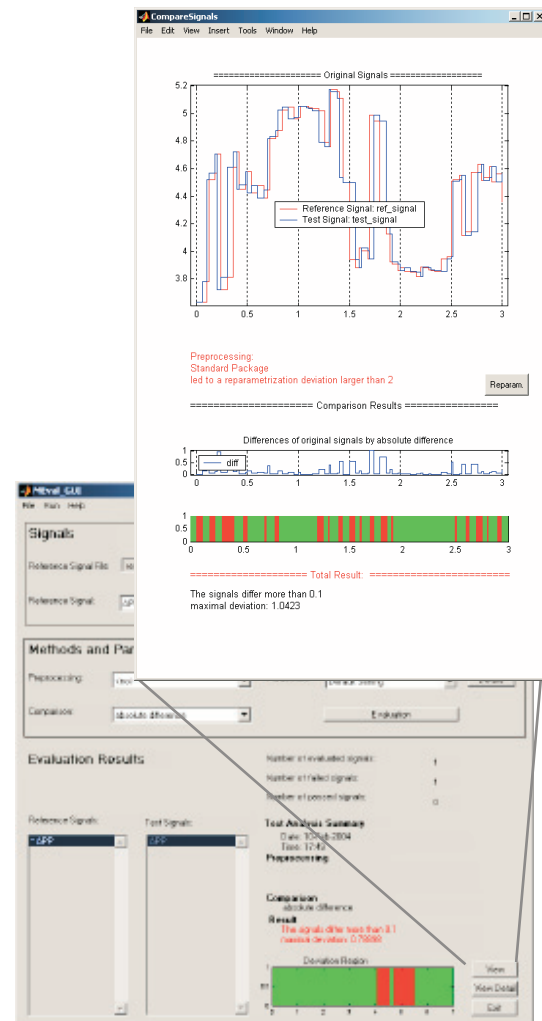
### MEval is The MathWorks partner

The advantages of MEval's functionalities for the signal comparison of embedded control unit software convinced The MathWorks to accept MEval for the MathWorks Connections Program. Thus, MEval is an official MathWorks partner for the development in the MATLAB/Simulink environment.



## MEval user interface and report

### MEval Report



MEval Graphical User Interface

## Contact

Contact us for further information about MEval or order a **free evaluation license**:

IT Power Consultants  
Gustav-Meyer-Allee 25  
Building 12  
13355 Berlin, Germany

Phone: +49 - (0)30 - 46 79 98 43  
Fax: +49 - (0)30 - 46 30 76 49

Email: [support@itpower.de](mailto:support@itpower.de)  
Web: [www.itpower.de](http://www.itpower.de)