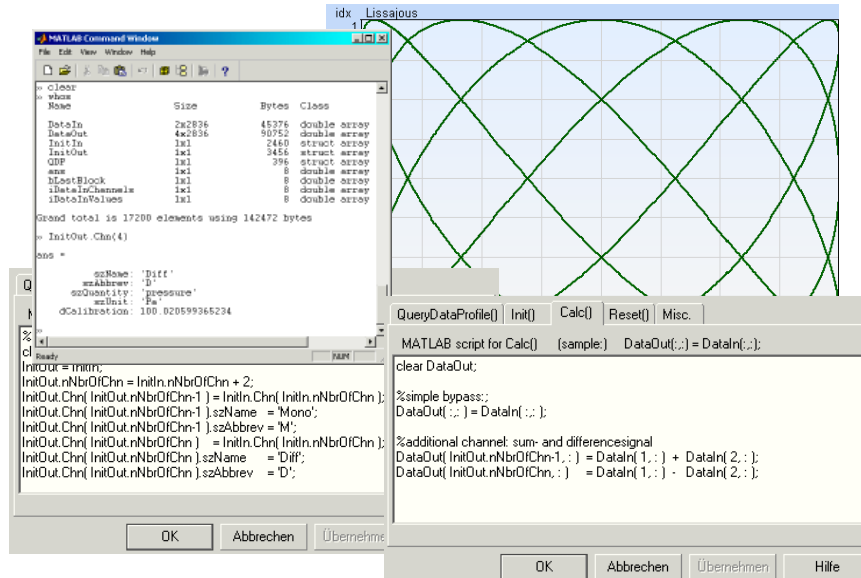


ATP 14 (Code 5027)

Channel-wise Calculation - Analysis Add-In

Extension module for ArtemiS for the processing of channel-related operations, for statistical and vector calculation functions, and for the implementation of user-defined functions

ASM 27 (Code 5027) of the ArtemiS SUITE includes ATP 14.



Overview
 ATP 14 allows for various operations, ranging from simple post-processing to calculations combining the results of several marks, or even the implementations of complex algorithms in MATLAB®. Furthermore, individual development of analysis functions with Microsoft Visual C (not included in the delivery) is possible as well.

Applications

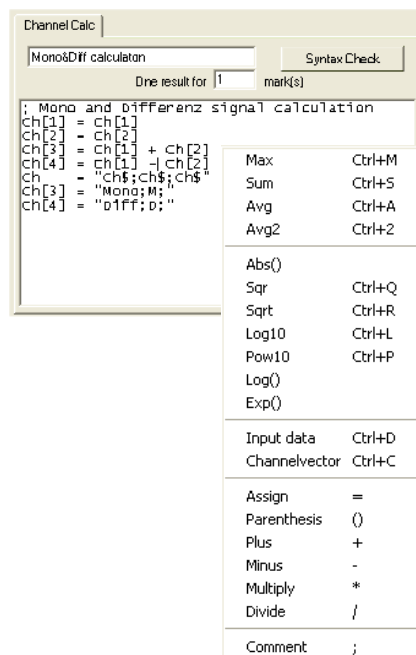
- Complex signal processing
- Automated post-processing of analysis results
- Implementation of customer-specific analysis algorithms

Features

- Intuitive script editor with syntax check
- User-defined formulas for vector processing
- Logging of runtime errors in the event log
- Add-in Wizard generates MS Developer Studio projects, which can be easily filled with implementations of user-specific algorithms using MS Visual C++
- Post processing of an analysis using an Add-in ("Add-in child")
- Easy integration of MATLAB® scripts (m-files) into the Batch processing of ArtemiS

Channel-wise calculation

The module allows for implementations of customized post-processing functions with simple mathematical operations for each channel of a result - or for several results simultaneously. A script editor checks the syntax for correctness.



Text editor for channel-wise calculations

MATLAB Add-in

The Add-in concept allows for data to be processed in a COM module, programmed by the user, via a standardized interface. The user-specific analysis, written in C++, can then be used like any other analysis in the analysis pool or can be inserted into ArtemiS for direct post-processing of the analysis.

The MATLAB Add-in is such a COM module that provides a ready-to-use connection for the data exchange with MATLAB®.