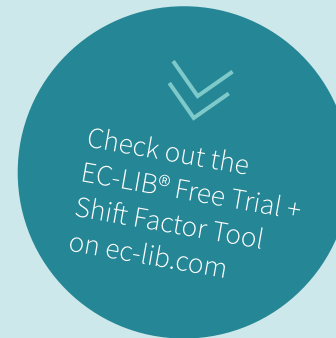


HOW DOES THE EC-LIB® FUNCTION LIBRARY SUPPORT ME?

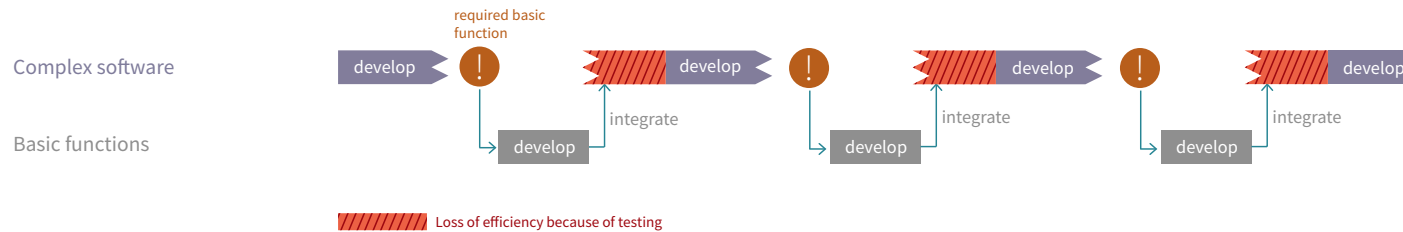
The EC-LIB® is a library consisting of mathematical and control-related functions. It is designed for the development of embedded software and employs fixed point arithmetic for all computing operations. EC-LIB® functions are implemented in C.

16-BIT | 32-BIT

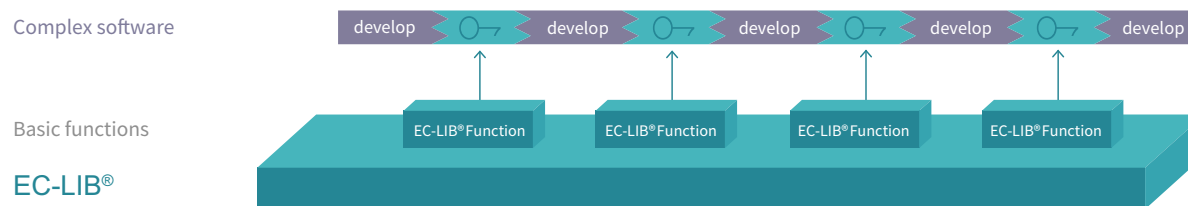
- Basic operations
- Controller + Filter
- Interpolation
- Bit Functions



Workflow without EC-LIB®



Workflow with EC-LIB®



Development time without EC-LIB®



Development time with EC-LIB®



- CONCEPTIONAL**
 - Standardized names enable an efficient navigation
 - Macros provide an easy handling of the operations
- RELIABLE**
 - Extensive, fully reported tests
 - Designed and developed according to safety requirements
 - Stable, optimized error handling
 - Numerical stability by fixed point arithmetic
 - Optimized runtime and efficient memory usage
 - Suitable for multicore systems
 - No installation, no automated updates, no trouble in access
- INTELLIGIBLE**
 - Easy integration into existing IDE
 - Comfortable handling via shifting concept
 - Online-Tool for calculating the optimal resolution easily
 - Intuitive naming conventions
 - Extensive, well-structured and illustrated documentation
- TRANSPARENT**
 - Source code fully available
 - Clear description of each function in the source code
- SUPPORTED**
 - E-Learnings and trainings
 - Support | Consulting offers