Code Coverage Tools Qualification Kit

"Our primary goal is to help our customers develop safe products and software. I believe this contributes to making the world a safer and better place."

Dr. Oscar Slotosch,
Board member & Co-Founder of Validas

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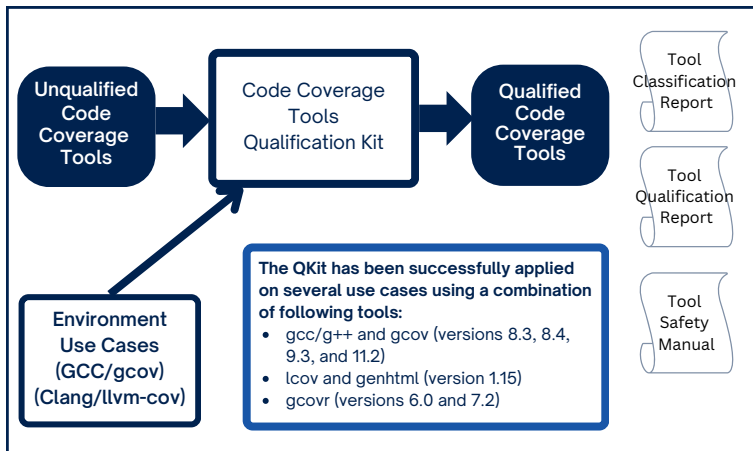ISO 26262 IEC 61508

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Code Coverage Tools

Using open-source code coverage tools (e.g. gcov, llvm-cov) could reduce your costs drastically, and they are now capable of measuring MC/DC coverage. The main purpose of code coverage tools is to measure whether safety-critical software applications have been sufficiently tested. While measuring it, code coverage tools can report different coverage metrics. Consequently, getting the correct code coverage metrics is highly important for the safety. Validas developed the Code Coverage Tools QKit to ensure that your code coverage tools generate correct and reliable metrics in your environment.

Unqualified Code Coverage Tools → Code Coverage Tools Qualification Kit → Qualified Code Coverage Tools

- Tool Classification Report
- Tool Qualification Report
- Tool Safety Manual

Environment Use Cases (GCC/gcov) (Clang/llvm-cov)

The QKit has been successfully applied on several use cases using a combination of following tools:
- gcc/g++ and gcov (versions 8.3, 8.4, 9.3, and 11.2)
- lcov and genhtml (version 1.15)
- gcovr (versions 6.0 and 7.2)

According to your business needs, Validas offers

- One-Time Qualification: Qualification Documents
- Qualification Kit ("Qualification flatrate") including tests and documentation generators
- Customization to special versions and use cases

Key benefits of using the QKit

- The tool is owned and frequently extended by Validas.
- It can be easily adapted to your configuration.
- It automatically executes and analyzes the necessary tests.
- It produces safety-standard-compliant documentation.
- It provides a perfect basis for easy certification.

The QR code will direct you to more information and examples of the Validas Code Coverage Tools Qualification Kit. If you have further questions, please email us at: coverage@validas.de

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