



## RTT-DCC 1.0:

### Data Coupling & Control Coupling Analyzer

#### **Automatic data coupling and control coupling (DC/CC) analysis for safety-critical avionics software**

Data coupling and control coupling analysis is a mandatory verification task for safety-critical avionics software according to DO178B and DO178C. RTT-DCC is a software analysis tool that automatically performs this analysis with a focus on pointer-induced couplings.

**Automatic** – RTT-DCC traces and documents all data dependencies between different source modules, and automatically determines verification obligations for the test team.

**Easy-to-use** – RTT-DCC parses and processes unmodified programs written in C and thus does not require any intrusions to the code base.

**Precise** – RTT-DCC performs a very precise context-sensitive program analysis in order to generate as few spurious warnings as possible.

**Efficient** – Analyze a large code bases with hundreds of thousands of lines of C code.

**Supportive** – RTT-DCC generates spreadsheets from templates that can be provided as evidence to the certification authorities.

**Qualified** – RTT-DCC comes with a tool-qualification suite for all software criticality levels according to the RTCA DO178B and DO178C standards.

**Proven in Use** – The tool has successfully been applied during low-level verification of software according to Development Assurance Level A (DAL A).

**For more information visit**

[www.verified.de/  
products/rtt-dcc](http://www.verified.de/products/rtt-dcc)

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