

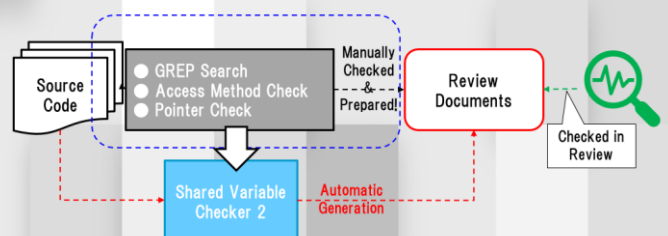
Improve the quality of Shared Variable (Concurrency Risk) Reviews

SharedVariable Checker2

Ensure the effectiveness of Concurrency Risk Reviews

Automatic generation of review documents, leading to more efficient and effective reviews!

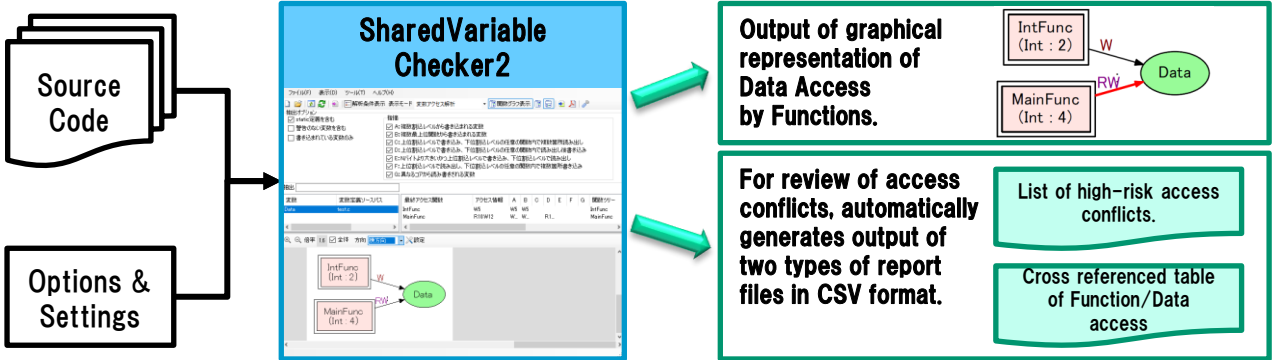
- Automatic detection of shared variable access (including via pointers, structures & unions)!
- Automatic documentation of possible race conditions and synchronization errors!
- Thorough risk detection at reduced cost!
- Interrupts & Multi-Core supported!
- Matrix display of functions and variables! (CSV format output available.)



SharedVariableChecker2

Product Outline

Using static analysis of C source code, visualize variable race conditions and improve review efficiency.

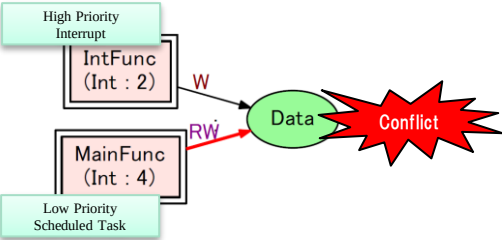


Product Features

Automatic detection of high-risk access.

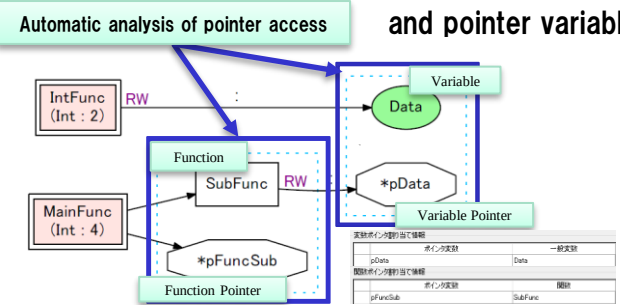
- 7 categories of risk detected.

[Example of Category A Risk]
Access to variable from multiple interrupt levels.

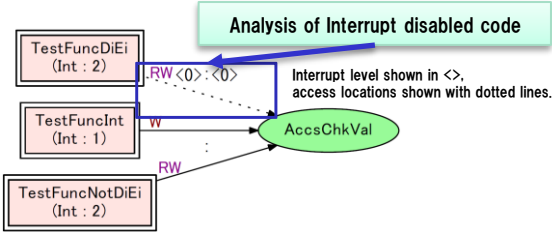


During a low priority scheduled task, a high priority interrupt handler writes to a shared variable. This may cause problems for the low level task!

Automatic analysis and linking of function pointers and pointer variables.

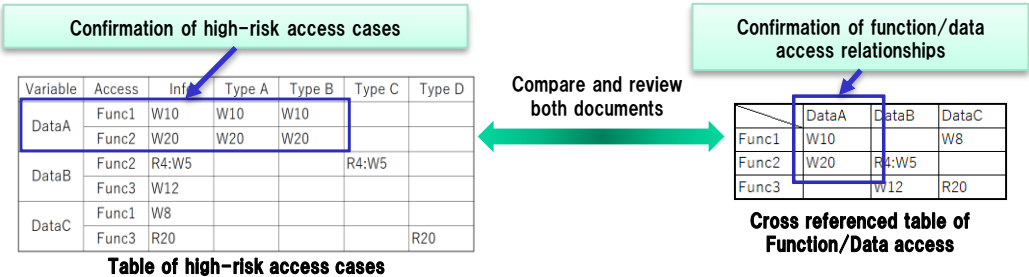


Analysis of Exclusion by specifying Interrupt Enabled/Disabled functions.



Review Example

Concurrency Review example using automatically generated documents.



(*) SharedVariableChecker2 should be used with Gaio Technology's "CasePlayer2" static analysis tool.

