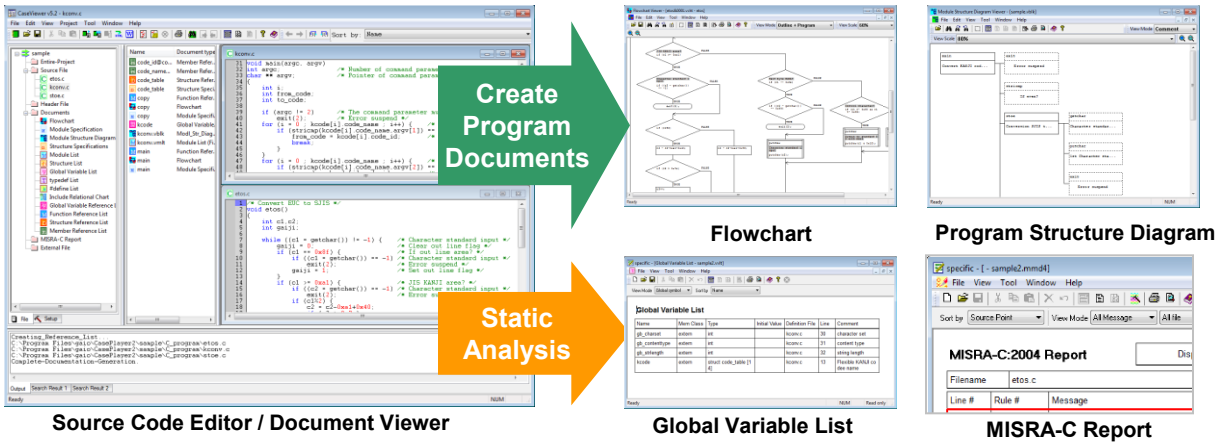




CasePlayer2

- Create program documents and charts
- Improve software reliability of newly developed source code
- Aids understanding of existing software resources
- Certified by TÜV SÜD as a tool that meets the ISO26262/IEC61508 standard

CasePlayer2 is an integrated reverse CASE tool that can create program documents such as flowcharts and MISRA-C reports from analyzing the source code. It includes a Document Browser for easy access to the program documents and source code for review.



Fast and Easy Program Document Creation

CasePlayer2's analyzer works fast and is easy to use because it reads the actual source code logic without requiring any special comments or #pragma descriptions.

Document Examples:

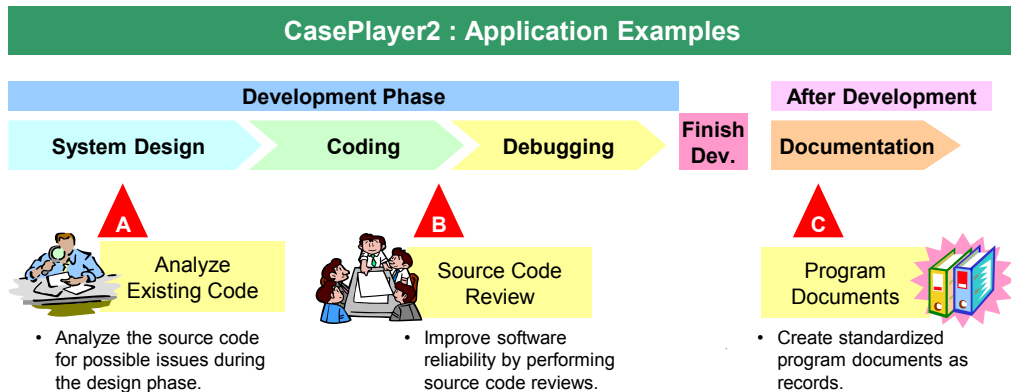
Flowchart, Module (Function) Specification Sheet, Module Structure Diagram, Module (Function) List, Structure Specification Sheet, Structure List.

Create Global Variable and Structure Reference Lists

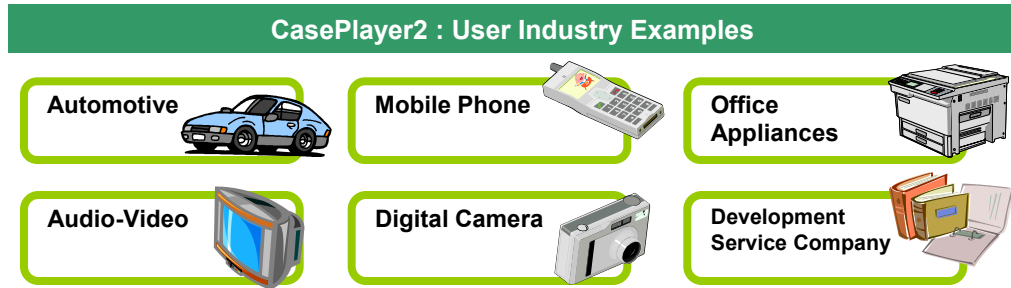
Global variable and structure reference/assignment lists may be created using CasePlayer2. This feature provides a quick reference, and can be useful in finding unexpected read/write errors.

Document Examples:

Global Variable List, typedef List, #define List, Global Variable Reference List, Function Reference List, Structure Reference List, Structure Member Reference List.



GAIO is the first company to obtain tool certification for the automotive functional safety standard ISO 26262 in the Asia-Pacific region. Tool certification was granted by third-party certification organization TÜV SÜD Germany.



Integrated Reverse CASE Tool for Embedded Development

CasePlayer2 is an integrated reverse CASE tool that can create program documents such as flowcharts and MISRA-C reports from analyzing the source code. It includes a Document Browser for easy access to the program documents and source code for review.

Fast and Easy Program Document Creation

CasePlayer2's analyzer is easy to use because it reads the actual source code logic without requiring any special comments or #pragma descriptions. It is also fast, capable of scanning 10,000 lines of C code in a matter of seconds.

Document Examples

Flowchart, Module (Function) Specification Sheet, Module Structure Diagram, Module (Function) List, Structure Specification Sheet, Structure List.

Create External Variable and Structure Reference Lists

External variable and structure reference/assignment lists may also be created with CasePlayer2. This feature provides a quick reference, and can be useful in finding unexpected read/write external variable and structure errors.

Static Analysis Report Examples

Global Variable List, typedef List, #define List, Global Variable Reference List, Function Reference List, Structure Reference List, Structure Member Reference List.

Printer-Friendly, Customizable, Save Documents in MS-Word / HTML File Format

CasePlayer2 documents are printer friendly, user customizable and may be saved in MS-Word or HTML format for easy access from external applications.

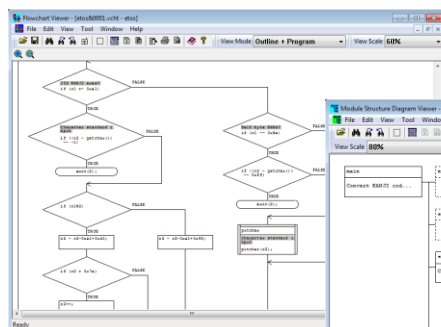
MISRA-C Checker

MISRA-C 1998 & 2004 rule sets for C code checking are supported with configurable options.

Source Metrics

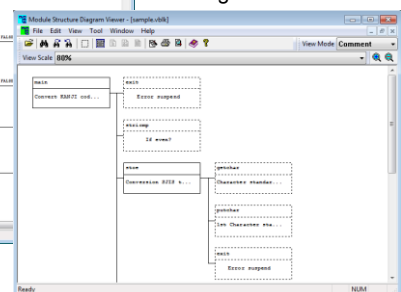
Cyclomatic complexity, Myer's interval, nesting count, code size, number of comment lines, static path count, etc.

Charts



Flowchart

Program Structure Diagram



Global Variable Lists

Global Variable List

Name	Mem Class	Type	Initial Value	Definition File	L
gb_charset	extern	int		icocnv.c	3
gb_contenttype	extern	int		icocnv.c	3
gb_stringlength	extern	int		icocnv.c	3
icocode	extern	struct code_table [1 4]		icocnv.c	1

Global Variable Reference List

Reference File	Line #	Function
icocnv.c	3	main
icocnv.c	4	main
icocnv.c	5	main
icocnv.c	6	main
icocnv.c	7	main
icocnv.c	8	main
icocnv.c	9	main
icocnv.c	10	main
icocnv.c	11	main
icocnv.c	12	main
icocnv.c	13	main
icocnv.c	14	main

MISRA-C Report

All Items	ID	Type	Rule
<input checked="" type="checkbox"/>	1	Required	All code shall conform to ISO 9899:1990, Programming languages - C (1990).
<input checked="" type="checkbox"/>	2	Required	No reliance shall be placed on undefined or unspecified behavior.
<input checked="" type="checkbox"/>	3	Nonconformity	Multiple compilers and/or languages shall only be used if there is a comment that the compiler/linker shall be checked to ensure that 31 character signi...
<input checked="" type="checkbox"/>	4	Nonconformity	Floating-point implementations should comply with a defined floating-po...
<input checked="" type="checkbox"/>	5	Required	Assembly language shall be encapsulated and isolated.
<input checked="" type="checkbox"/>	6	Required	Source code shall only use /*...*/ style comments.
<input checked="" type="checkbox"/>	7	Required	The character sequence /* shall not be used within a comment.
<input checked="" type="checkbox"/>	8	Advisory	Sections of code should not be "commented out".
<input checked="" type="checkbox"/>	9	Required	All usage of implementation-defined behavior shall be documented.
<input checked="" type="checkbox"/>	10	Required	The character set and the corresponding encoding shall be document...

MISRA-C 1998 & 2004 rule sets supported for C code checking

Features

- Document Browser for viewing program documents and source code
- Create a variety of documents including:
 - Module Structure Diagram, Module Specification Sheet, Structure Specification Sheet, Flowchart, Module List, Structure List, etc.
- Compatible Source Code: ANSI C, embedded C and assembly
- Save documents in MS-Word or HTML file format
- Save charts in BMP or PNG image file format
- Printer-friendly
- Fast and easy to use

System Requirements

- IBM Compatible
- USB port (for USB license key)
- Windows XP, Windows Vista (32-bit), Windows 7 (32/64-bit)
- Hard Drive: 50 MB free space
- Microsoft Internet Explorer 5.5 or newer to view HTML format documents
- Microsoft Word 2000 or newer to view MS-Word format documents