Application Benefits

Reduced testing costs and maximized customer satisfaction

- Reduce software testing costs significantly, which typically account for 40% and as much as 60%.

Shortened time for development

- Let COYOTE generate test cases and test harnesses to help you conduct test efficiently.

Enhanced software quality and reliability

- Make your software more reliable by securing more systematic and relevant test cases.

Improved QA process

- Establish a systematic test process by utilizing COYOTE to automate unit tests that were manually performed.
- Improve testing effectiveness and software safety based on advanced QA standards established by COYOTE.

Application Areas

- Automotive Electronics Software
- Defense Software
- Communication Equipment Software
- Fintech Software
- Robotics Software
- Aviation Software

About Us

White Box Testing
- Static Analysis Testing Tool
- Dynamic Verification Tool

Testing Services
- Static Source Code Testing
- Dynamic Verification

Expert Specialists in Software Analysis & Verification

Collaboration with the Institute of Convergence IT in Korea University

Collaboration with the ROSAEC of Seoul National University

Patents

- Dynamic symbol execution method with static analysis
- Program analysis apparatus and analysis method
- Device and method for analyzing information drain of application
- Device and method for assessing static analysis tools
- Method and device for analyzing programs
- Method and device for tracking defects

Awards

- 2017 Grand Price of the Digital Innovation Award
- 2018 Global SW Competition Award
- 2018 Software Quality Award

Certification

- Good Software (GS) Certification
- CC Certification
- ISO 26262
- INNOBIZ Certification
- Venture Company Certification

CODEMIND Into the Source

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www.codemind.co.kr

Fully Automated Software Testing Tool

COYOTE

COYOTE ensures higher code coverage
through every stage of software development

CODEMIND Into the Source

Automated Software Testing Tool

COYOTE

COYOTE

COYOTE is an innovative, fully-automated white box testing tool for dynamic verification of software, developed by integrating forefront technologies of symbolic testing and machine learning.

COYOTE can generates test cases 100% automatically, helping you improve your productivity. In addition, COYOTE can cover greater than 90% of code coverage, contributing to successful unit testing of embedded and safety-sensitive software.

Capabilities

An avant-garde tool developed by a software analysis & verification technology expert

- Cutting-edge symbolic testing technology
- Convergence of two technologies, static analysis and machine learning

Entirely automatically generate test cases

- 100% automatic generation of unit test data

Entirely automatically generate test harnesses

- 100% automatic generation of test drivers
- 100% automatic generation of library stubs

Cover greater than 90% branch coverage

- Verified in the automotive software field

The larger the project, the higher the productivity.

- Maximize productivity and efficiency by streamlining the testing process

Features

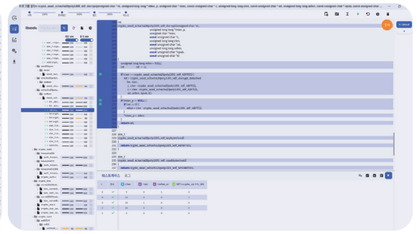
Fully Automatic

- Generation of test harnesses, test cases, and test results with just one click
- Intuitive management of test progress (The successes and failure of test runs and average coverage by file/unit)
- Test results at a glance (Review of code, coverage, and test cases by file/unit)
- Automatic detection of crash bugs (Buffer Overrun, Null Dereference, Division by Zero, etc.)

Coverage Improvement

- Provides test case table by unit (Supports the feature to add user test cases)
- Enables testing with user-written drivers by unit (Supports the feature to create user test harnesses)
- Supports the feature to add user stubs by unit (Enables more sophisticated manipulation to improve coverage and supports the feature to stub functions within class/structure type)
- Provides various test coverages (Statement, Branch, MC/DC)

Fully Automatic



Coverage Improvement

Flexible Settings

- Build environment settings (Length of arrays, adding of user header files & converters, specifying files containing global variables)
- Test settings (Timeout, functions to be stubbed, the number of testcases to be created, verification specifications)
- Compilers Settings (Supports new compilers, Visual Studio, GCC, Clang, Tasking compliers, etc.)

Support Information

OS	Application	Language
Windows	Standalone	C/C++
Linux	Standalone	
	Server-Client	