ENGINEERING

TOULOUSE TECH TRANSFER

Code Injection Detector

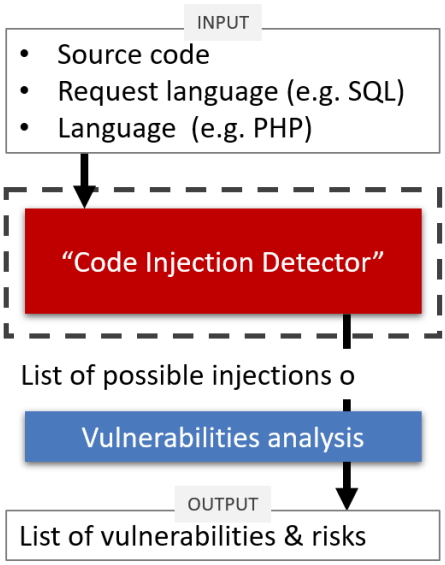
Code injection remains one of the top vulnerabilities in computer programs, but conventional mitigations (static analysis, fuzzing, machine learning) rely mostly on known software flaws or empirical analysis. A great deal of possible injections remains undetected and prime targets for attackers.

DESCRIPTION*

A team of researchers have developed a formal verification approach that can check and list all unsafe functions/methods in a source code.

Based on the theory of languages, it is formally proven and delivers an exhaustive list of possible remaining injections in a source code in seconds. The list of possible injections can then be displayed to the programmer or fed to a vulnerability analysis tool.

By design, it is language agnostic. Any language can be implemented (SQL, XSS, LDAP, etc.) and can be integrated into vulnerability scanners and code checking tools.



TECHNICAL SPECIFICATIONS

Algorithm	Formally proven
Development status	Prototype (SQL/PHP)
IP Status	Undisclosed

COMPETITIVE ADVANTAGES

- Exhaustive analysis
- Language agnostic
- Formally proven
- Fast (~sec)

APPLICATIONS

- Software Scanning
- Static code analysis

INTELLECTUAL PROPERTY

- Software copyrights

DEVELOPMENT STAGE

- Experimental proof of concept

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LABORATORY

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