

# FAULT INJECTION TESTING

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## What is Fault injection Testing?

Fault injection is a software testing technique by introducing faults into the code for improving the coverage and usually used with stress testing for robustness of the developed software.

## Fault injection Methods:

- Compile-Time Injections - It is a fault injection technique where source code is modified to inject simulated faults into a system.
- Run-Time Injections - It makes use of software trigger to inject a fault into a software system during run time. The Trigger can be of two types, Time Based triggers and Interrupt Based Triggers.

## Tools used for Software Fault Injection:

Following are the tools used for fault injection purposes:

Product	Vendor	URL
BStorm	Beyond Security	<a href="http://www.beyondsecurity.com/">http://www.beyondsecurity.com/</a>
The Mu Service Analyzer	Mu Dynamics	<a href="http://www.mudynamics.com">www.mudynamics.com</a>
Holodeck	security Innovation	<a href="http://www.securityinnovation.com">www.securityinnovation.com</a>
Xception	Critical software	<a href="http://www.criticalsoftware.com/">http://www.criticalsoftware.com/</a>