ABOUT US

To improve software quality and reliability cost-effectively, we provide automated SW testing tools/process/consulting/training.

V Plus Lab is founded by KAIST professors and researchers of Software Testing and Verification Group (http://swtv.kaist.ac.kr), who has developed automated software testing/debugging techniques and tools with industries for decades.

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V PLUS LAB

Innovating SWTesting

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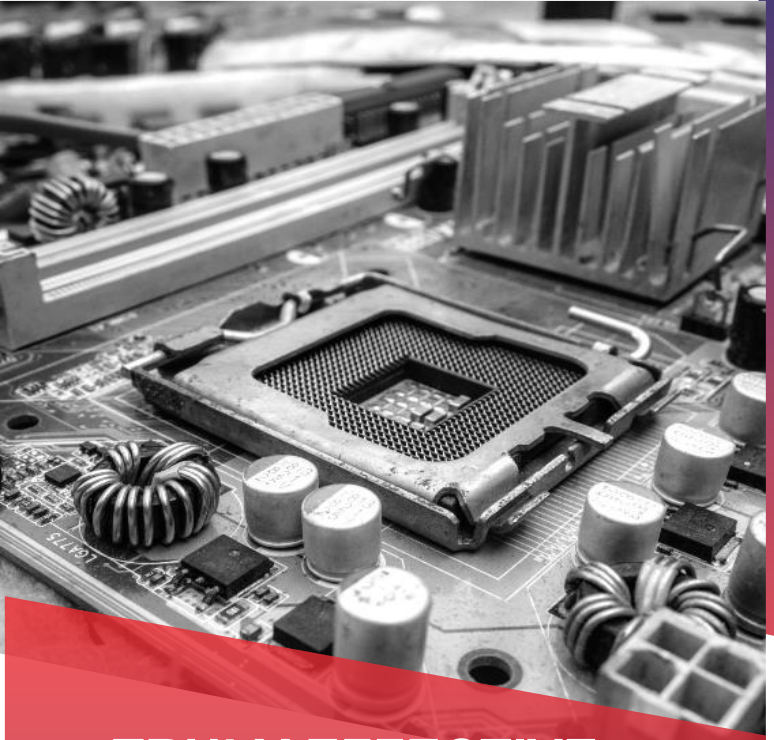
INNOVATING SW TESTING



TRULY EFFECTIVE AUTOMATED SW TESTING TOOL

Our mission is to support industries to improve SW quality and reliability cost-effectively by adopting automated SW testing and debugging tools, which have following advantages over conventional manual SW testing practice:

- **Highly increased SW code coverage and bug detection ability**, by testing all possible corner-case scenarios identified by advanced static and dynamic SW analysis techniques.
- **Significantly decreased SW testing cost and time**, because of automatically generating millions of effective test inputs by running automated SW testing tools 24 hours/day.

"By replacing 90% of manual SW testing tasks, CROWN 2.0 can more than double the SW testing efficiency"

FIELD PROVEN EXPERTIES

Since 2009, we have worked with dozens of companies and showed the effectiveness of AI based Concolic testing techniques, by

- Automatically achieving 90% of branch coverage (80% of MC/DC coverage), and
- Detecting numerous critical bugs.
- News Article: Mobis, Adopting AI-based SW Verification System… "Double the Efficiency" (Yonhap news, 2018/07/22)

SAMSUNG LG LIG Nex1

HYUNDAI MOBIS HYUNDAI Mando

CROWN 2.0

Automated SW Unit Testing Tool Based on AI-based Concolic Testing Techniques

CROWN 2.0 automatically generates unit test driver/stubs and test inputs that achieve high code coverage and detect many bugs.

The core asset of CROWN 2.0 is its Concolic testing engine; after analyzing target source code, it automatically generates numerous unit test inputs that exercise all possible execution paths of a target unit under test.