



Android APK



Crash Trace
& Message

Fault Localization Module

Static Analysis

Target Exception
Summary

Candidate Picking

Candidate Filtering

Candidate Sorting

Fault Localization
Reports with
Inferred Reasons

query

match

Exception Semantics Analysis Module

Sink Point
Extraction

Message Extraction

Key Condition Analysis

Key Variables

Key APIs

static analysis



Exception
Summaries



Framework
Code



API 32
Android 12



API 30
Android 11



API 29
Android 10

.....



API 9
Android 2.3