Paper	Category	Input	Main Approach	Need Extra Human Interactions	Output	Benefits of the system
Specification Extraction by Symbolic Execution	Formula Extraction		dynamic symbolic execution guided by concrete program execution	Yes	Computation Formula and Path Conditions	Understand the essential computation and constraints of complex programs
Prospex: Protocol Specification Extraction	Protocol Analysis	sequence of typed messages between clients and servers	reverse engineering the protocol state machine	No	application-level protocol specification: meaningful message formats and protocol state machines	automatically find vulnerabilities in real-world applications