

TECHNOLOGY

Automated Penetration Analysis Tool

OVERVIEW

In a world of increasing computer network linkage the domain of computer security is becoming critical. In order to develop methods to detect (in an automated fashion) an intrusion into computer systems, a team in the Electrical Engineering Department at the University of Maryland, has invented a pattern-oriented intrusion detection tool. The tool can track information and privilege flows within the computer as well as characterizing virus propagation across protection sets. A prototype has been developed on C-language UNIX-type operating systems trusted computing bases. The inventors hope that other penetration scenarios (faulty parameter validation, access, resource bounds, timing consistency errors and inadequate user/system address space separation) can be detected by augmenting the current automated tool.

US patent 5,485,409 issued in 1996; it is believed that the technology disclosed and claimed in this patent forms the basis for all signature security applications.

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Additional Information

INSTITUTION

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PATENT STATUS

U.S. Patent 5,485,409.

LICENSE STATUS

Available for non-exclusive license

EXTERNAL RESOURCES

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