

Hyperion

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Copyright Summary

From a cyber-security perspective, it would be advantageous to understand and analyze the functionality of binary executables of newly developed software or acquired software prior to installing and running these programs on a computer. This is very difficult to do. The Hyperion system was designed to “look inside” an executable program and determine software’s function or “behavior” without the use of the software’s source code. Hyperion accomplishes this by generating associated program behaviors and the complete set of conditions under which they occur. These behaviors can be automatically checked for known malicious signatures and inspected by domain experts to assure correct operation and the absence of malicious content. Hyperion can also be used to check a program’s security properties and to optimize a program. (Development of the Hyperion technology was made possible, in part, by funding from the Cybersecurity for Energy Delivery Systems program within the Department of Energy's Office of Electricity Delivery and Energy Reliability.)

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