

Computer / Code Security

Inventors: Jack Davidson et al.

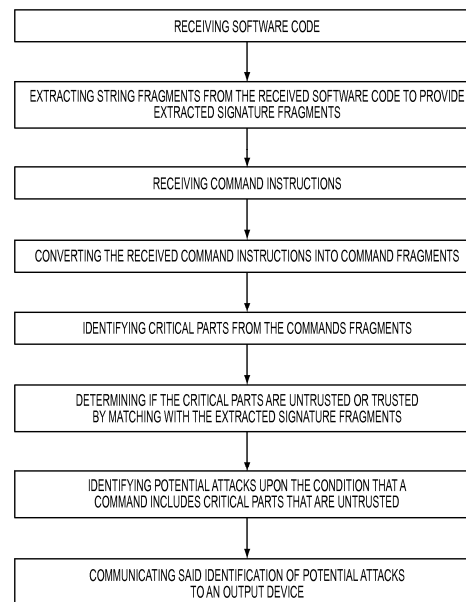


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Detecting Command Injection Attacks

- US Patent 9635033
- www.google.com/patents/US9635033
- System and method for detection, mitigation
- Thwarts attacks and allows software to continue operating despite attempts to subvert

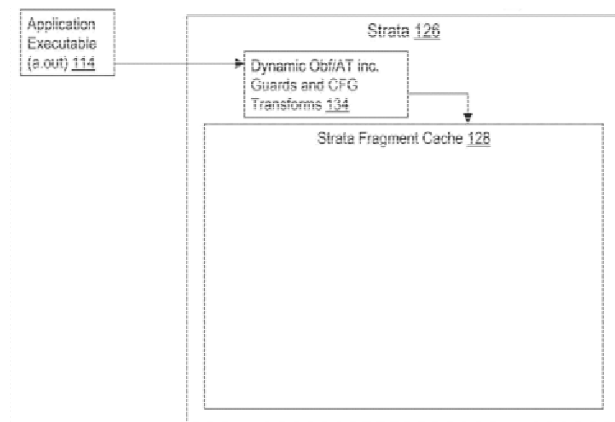
Claim 1 elements: System and methods for detecting command injection attacks based on command instructions to be received from a client processor or client data memory, said system comprising ...



Obfuscation Transforms

- US Patent 10176324
- www.freepatentsonline.com/10176324.html
- Self-checking codes are hidden within encrypted code, translator caches blocks
- Translator dynamically applies anti-tampering and obfuscation techniques

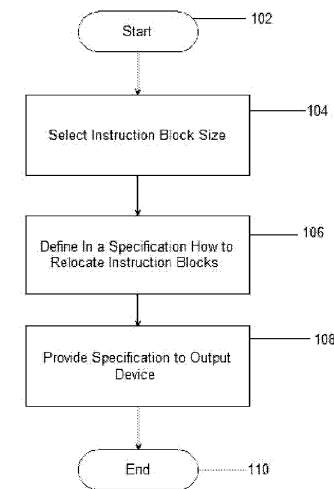
Claim 1 elements: Increasing tamper-resistance and/or obscurity of computer software code, comprising: one or more first preparation transformations .. one or more second preparation transformations .. one or more execution transformations



Instruction Location Randomization

- US App. 14/381464 to issue Jan. 29, 2019
- www.google.com/patents/US20170371635
- System for relocating executable instructions to arbitrary locations

Claim 1 elements: System for computer security .. comprising: an input module to receive blocks of instructions, said blocks of instructions being of an arbitrarily-selectable size; processor configured to define how to relocate said blocks of instructions to arbitrary locations; and output module configured to transmit said specification.



Intellectual Property

- Tech ID: NTONG-IATTACK
 - Title: Detecting Command Injection Attacks
 - US Patent 9635033 granted Apr. 25, 2017
- Tech ID: DAVIDSON-OBFUSCATION
 - Title: Protecting Software with Obfuscation Transforms
 - US Patent 10176324 granted Jan. 8, 2019
- Tech ID: DAVIDSON-ILR
 - Title: Instruction Location Randomization (ILR)
 - US App. 14/381464 to issue Jan. 29, 2019



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