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- (71) Applicant: BITDEFENDER IPR MANAGEMENT LTD [CY/CY]; Kreontos 12, Nicosia, 1076 (CY).
- (72) Inventors; and
- (71) Applicants : LUKACS, Sandor [RO/RO]; Bld. Cetatea Fetei bl. B et. 3, Sat Floresti, Com. Floresti, Judetul Cluj (RO). LUTAS, Andrei-Vlad [RO/RO]; Bld. Closca nr. 111, Judetul Satu Mare, Satu Mare (RO).
- (74) Agent: TULUCA, Doina; Bd. Lacul Tei 56, bl. 19, sc. B, ap. 52, sector 2, 020392 Bucuresti (RO).
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(54) Title: SYSTEMS AND METHODS FOR EXPOSING A CURRENT PROCESSOR INSTRUCTION UPON EXITING A VIRTUAL MACHINE

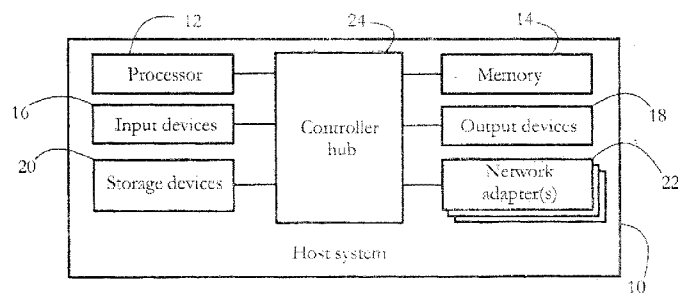


FIG. 1

(57) Abstract: Described systems and methods enable a host system to efficiently perform computer security activities, when operating in a hardware visualization configuration. A processor is configured to generate a VM suspend event (e.g., a VM exit or a virtualization exception) when software executing within a guest VM performs a memory access violation. In some embodiments, the processor is further configured to save disassembly data determined for the processor instruction which triggered the VM suspend event to a special location (e.g., a specific processor register) before generating the event. Saved disassembly data may include the contents of individual instruction encoding fields, such as Prefix, Opcode, Mod R/M, SIB, Displacement, and Immediate fields on Intel® platforms.