



03/02/2024	<b>WoWMIPS - MIPS Emulator for Windows, Part 6: Testing</b> Writing a Windows NT MIPS emulator for x86 - part 6
03/02/2024	<b>WoWMIPS - MIPS Emulator for Windows, Part 5: Additional details</b> Writing a Windows NT MIPS emulator for x86 - part 5
03/02/2024	<b>WoWMIPS - MIPS Emulator for Windows, Part 4: Windows API calls</b> Writing a Windows NT MIPS emulator for x86 - part 4
03/02/2024	<b>WoWMIPS - MIPS Emulator for Windows, Part 3: Emulating the MIPS R4000 CPU</b> Writing a Windows NT MIPS emulator for x86 - part 3
03/02/2024	<b>WoWMIPS - MIPS Emulator for Windows, Part 2: Mapping the executable image</b> Writing a Windows NT MIPS emulator for x86 - part 2
03/02/2024	<b>WoWMIPS - MIPS Emulator for Windows, Part 1: Introduction</b> Writing a Windows NT MIPS emulator for x86 - part 1
11/11/2023	<b>Flare-On 2023 Challenge 7 (flake) - Solving a compiled Python challenge using native tools</b> Flare-On 2023 write-up
11/01/2023	<b>SelfDebug - A useless anti-debug trick by forcing a process to debug itself</b> Forcing a process into a state which prevents a real debugger from attaching
10/12/2022	<b>StealthHook - A method for hooking a function without modifying memory protection</b> Discovering and overwriting nested global pointers to hook functions without suspicion
20/10/2022	<b>SharedMemUtils - A simple tool to automatically find vulnerabilities in shared memory objects</b> A tool to simplify a common weakness in services that can often lead to successful exploitation
20/09/2022	<b>Exploiting a Seagate service to create a SYSTEM shell (CVE-2022-40286)</b> A brief overview of a simple vulnerability that I recently discovered

09/09/2022	<div><div><b>WriteProcessMemoryAPC - Write memory to a remote process using APC calls</b></div><div>Another alternative to WriteProcessMemory, this time by scheduling APC calls to call RtlFillMemory</div></div>
02/04/2022	<div><div><b>AudioTransmit - Transmitting data between computers using audio</b></div><div>A simple proof-of-concept to transfer data between computers using software-generated audio tones</div></div>
01/03/2022	<div><div><b>NTSockets - Downloading a file via HTTP using the NtCreateFile and NtDeviceIoControlFile syscalls</b></div><div>Reverse-engineering communications with the afd.sys driver to create a basic winsock wrapper</div></div>
25/02/2022	<div><div><b>LogNT32 - Part 2 - Return-address hijacking implemented to improve efficiency</b></div><div>Improvements added to the original LogNT32 code</div></div>
23/02/2022	<div><div><b>LogNT32 - Trace all ntdll function calls without a pre-defined list of headers</b></div><div>Log all user-mode ntdll syscalls (32-bit only)</div></div>
10/02/2022	<div><div><b>WindowsNoExec - Abusing existing instructions to executing arbitrary code without allocating executable memory</b></div><div>Using a custom exception handler to single-step over existing instructions to execute a custom payload</div></div>
04/02/2022	<div><div><b>CreateSvcRpc - A custom RPC client to execute programs as the SYSTEM user</b></div><div>Reverse-engineering the RPC protocol to create Windows services using native NT APIs</div></div>