

TECHNOLOGY WATCH

Similar Projects:

The following projects were reviewed as part of a technology watch to inform and inspire key design decisions.

By studying how similar tools handle binary execution, compatibility, and storage, this watch aims to identify approaches that could strengthen the architecture and implementation of the current project.

1. ReactOS

- Open-source reimplementation of Windows NT
- Can natively run many Win32 applications
- Platform: Custom OS
- <https://reactos.org/>
- Last Update: March 21rst, 2025
- Status: Open Source

2. CrossOver

- Commercial version of Wine with improved compatibility/support
- Adds GUI and enterprise support
- Platform: Linux, macOS
- <https://www.codeweavers.com/crossover>
- Last Update: March 11th, 2025
- Status: Closed Source/Commercial

3. DOSBox

- Emulates MS-DOS for running legacy DOS binaries on modern OSes
- Ideal for old games and software
- Platform: Windows, Linux, macOS
- Website: <https://www.dosbox.com/>
- Last Update: June 26th, 2019
- Status: Open Source

4. Box86 / Box64

- Userspace x86 and x86_64 emulators for ARM platforms (e.g., Raspberry Pi)
- Allows running native Linux x86 apps on ARM
- Platform: Linux on ARM

- Website: <https://box86.org/>
- Last Update: March 10th, 2025
- Status: Open Source

5. Darling

- macOS compatibility layer for Linux (similar to Wine)
- Aims to run macOS binaries on Linux
- Platform: Linux
- Website: <https://www.darlinghq.org/>
- Last Progress Report: Q2 2023
- Last Github Update: Last week
- Status: Open Source

6. Proton

- Valve's fork of Wine tailored for Steam games on Linux
- Includes enhancements like DXVK and VKD3D
- Platform: Linux (Steam)
- Website: <https://github.com/ValveSoftware/Proton>
- Last Update: April 30th, 2025
- Status: Open Source

7. Rosetta 2

- Apple's binary translator to run x86_64 apps on ARM-based Macs
- Built into macOS for Apple Silicon
- Platform: macOS (M1, M2 chips)
- Website: <https://support.apple.com/en-us/102527>
- Clean Room Reverse Engineering: <https://github.com/FFRI/ProjectChampollion>
- Last Update: ?
- Status: Closed Source/Commercial

8. Cheerpx

- WebAssembly-based virtualization of x86 Linux/Windows binaries
- Enables legacy apps in the browser
- Platform: Web
- Website: <https://cheerpx.io/>
- Last Update: November 13th, 2024
- Status: Closed Source/Commercial

9. WINE

- Compatibility layer for running Windows applications on Unix-like operating systems
- Enables Windows apps on Linux, macOS, and more without emulation
- Platform: Linux, macOS, BSD
- Website: <https://www.winehq.org/>
- Last Update: May 16th, 2025

- Status: Open Source

10. **XWine1**

- Xbox One compatibility layer for Windows PCs
- Runs select Xbox One games natively on Windows without full emulation
- Platform: Windows
- Website: <https://x.com/XWineOne>
- Last Update: September 8th, 2024
- Status: Closed Source