

HuTaoCrypt Update

Faster vault operations, smoother media previews, and expanded Linux support.

Performance improvements

Recent changes reduce repeated work when opening and browsing large vaults. File verification and scanning have been optimized, while the vault interface now does less processing for entries outside the visible area.

- **Vault loading:** Faster file verification, fewer repeated reads during scans, and more efficient updates to vault metadata.
- **Browsing:** Improved handling of large file grids, filters, sorting, and favorites to reduce unnecessary interface work.
- **Thumbnails:** Background preparation and improved request handling help keep the interface responsive while images load.
- **Media playback:** Changes to frame handling, seeking, and audio timing address stalls and dropped frames during previews.

Internal performance tests recorded the following results:

Test workload	Before	After	Result
Vault verification, 300 records	1,005 ms	168 ms	5.98× faster
Vault scan, 500 files	117 ms	69 ms	41% less time

These are measurements from targeted internal test runs. Results vary with storage speed, file types, and hardware.

A separate combined workload test ran 1080p60 playback alongside thumbnail generation, vault scanning, and encryption. Across three recorded runs, playback reported zero dropped frames and zero audio underruns.

Protected release builds

HuTaoCrypt continues to use code obfuscation in its configured release builds. Its LLVM-based build toolchain protects first-party application code while the vault encryption and normal file workflows remain in place. The latest performance work focuses on reducing runtime overhead without removing those protections.

Linux and build updates

HuTaoCrypt now has dedicated packaging for Debian-based and Arch-based Linux systems alongside the Windows release. The Linux update improves dependency handling, desktop integration, and font fallback for additional languages. The build configuration also supports compiler caching and a faster linker when available, reducing repeated development build work.

Website updates

The HuTaoCrypt product page has been refreshed with responsive screenshots, smaller image assets, and more efficient loading. The download experience is also being updated to make platform selection and installation instructions clearer.