

Browsers: Chromium 74 on Slackware, TenFourFox on OS/2, Debugging Firefox Trunk and Brave Forked

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- [Chromium 74 available in my repository. Also for 32bit Slackware.](#) [4]

The Chromium 74 sources were released a few days ago by Google, and it comes with a long list of fixes for security issues.

I spent almost two months to investigate why the 32bit package could no longer be built (which is one of the reasons why there were so few updates in march and april ? I only have a few hours every day that I can spend on Slackware these days) and had finally managed to compile a 32bit package for Chromium 73 in a 32bit chroot environment on a 64bit Slackware OS, and that package was online for one day?. and now I tried compiling the new release on a regular 32bit Slackware OS and that worked! No idea whether this is because of my modifications of the SlackBuild.

- [Cameron Kaiser: Another interesting TenFourFox downstream](#) [5]

Because we're one of the few older forks of Firefox to still backport security updates, TenFourFox code turns up in surprising places sometimes. I've known about roytam's various Pale Moon and Mozilla builds; the patches are used in both the rebuilds of Pale Moon 27 and 28 and his own fork of 45ESR. Arctic Fox, which is a Pale Moon 27 (descended from Firefox 38, with patches) rebuild for Snow Leopard and PowerPC Linux, also uses TenFourFox security patches as well as some of our OS X platform code.

Recently I was also informed of a new place TenFourFox code has turned up: OS/2. There's no Rust for OS/2, so they're in the same boat that PowerPC OS X is, and it doesn't look like 52ESR was ever successfully ported to OS/2 either; indeed, the last "official" Firefox I can find from Bitwise is 45.9. Dave Yeo took that version (as well as Thunderbird 45.9 and SeaMonkey 2.42.9) and backported our accumulated security patches along with other fixes to yield updated "SUa1" Firefox, Thunderbird and SeaMonkey builds for OS/2. If you're curious, here are the prerequisites.

- [Update To rr Master To Debug Firefox Trunk \[6\]](#)

The issue is that LMDB opens a file, maps it into memory MAP_SHARED, and then opens the file again and writes to it through the new file descriptor, and requires that the written data be immediately reflected in the shared memory mapping. (This behavior is not guaranteed by POSIX but is guaranteed by Linux.) rr needs to observe these writes and record the necessary memory changes, otherwise they won't happen during replay (because writes to files don't happen during replay) and replay will fail. rr already handled the case when the application write to the file descriptor (technically, the file description) that was used to map the file ? Chromium has needed this for a while. The LMDB case is harder to handle. To fix LMDB, whenever the application opens a file for writing, we have to check to see if any shared mapping of that file exists and if so, mark that file description so writes to it have their shared-memory effects recorded. Unfortunately this adds overhead to writable file opens, but hopefully it doesn't matter much since in many workloads most file opens are read-only. (If it turns out to be a problem there are ways we can optimize further.) While fixing this, we also added support for the case where the application opens a file (possibly multiple times with different file descriptions) and then creates a shared mapping of one of them. To handle that, when creating a shared mapping we have to scan all open files to see if any of them refer to the mapped file, and if so, mark them so the effects of their writes are recorded.

- [Gab is forking Brave, and Brave is forking furious \[7\]](#)

Gab, the free-speech absolutist social media network, continues to look for creative ways to resist being silenced.

Having earned a reputation as a platform that is tolerant of even the most hateful (yet still technically legal) expressions of speech, Gab has been booted off virtually every Silicon Valley service imaginable?from payment processors to web host providers.

Now, fresh off having its browser plug-in Dissenter, the ?comment section of the Internet,? ejected from the Google and Mozilla extension libraries, Gab is taking the oft-used ?if you don?t like it, go create your own? criticism to heart. The company has built its own web browser?a forked version of the open-source Brave browser?and will be releasing it within the next few weeks, Gab CEO Andrew Torba tells Decrypt .

[Google Moz/FF Web](#)

Source URL: <http://www.tuxmachines.org/node/123255>

Links:

- [1] <http://www.tuxmachines.org/taxonomy/term/120>
- [2] <http://www.tuxmachines.org/taxonomy/term/118>
- [3] <http://www.tuxmachines.org/taxonomy/term/103>
- [4] <https://alien.slackbook.org/blog/chromium-74-available-in-my-repository-also-for-32bit-slackware/>
- [5] <http://tenfourfox.blogspot.com/2019/04/another-interesting-tenfourfox.html>
- [6] <https://robert.ocallahan.org/2019/04/update-to-rr-master-to-debug-firefox.html>
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