



# Editing Simulation

By Mert Tümer

---

Consultant  Collabora  
Software Engineer  
[mert.tumer@collabora.com](mailto:mert.tumer@collabora.com)



# What is it?

## All about typing experience simulation!

- A tool to measure the performance & user experience while typing
- “N” number of views joining to the document
- Start meshing the keyboard..

## What you can do:

- Adjust the typing speed
- Define the duration
- Setup single or multiple views
- Have it report tile per request statistics and much more.



---

# Why is it needed?



# Why needed?

- Difficult and time consuming to measure performance without tools
- Even harder if not impossible for collaborative editing
- Not reliable without repeating the same steps.



---

# How can one test it?



# How to use it

- `cd path/to/online/browser`
- `make perf-test <parameters>`
  - Parameters are not documented yet. Feel free to check browser/Makefile.am and “perf-test:” label

## Tools used and needed (preferably):

- Linux perf
- Hotspot



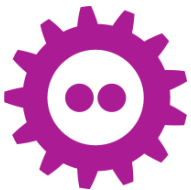
# How to develop

## Two files:

- browser/test/bootstrap.js
  - Starts the test, runs collabora online and spawns the views
- browser/test/load.js
  - Represents a view that is spawned and makes the keyboard events

## Technologies that are used

- Node.js

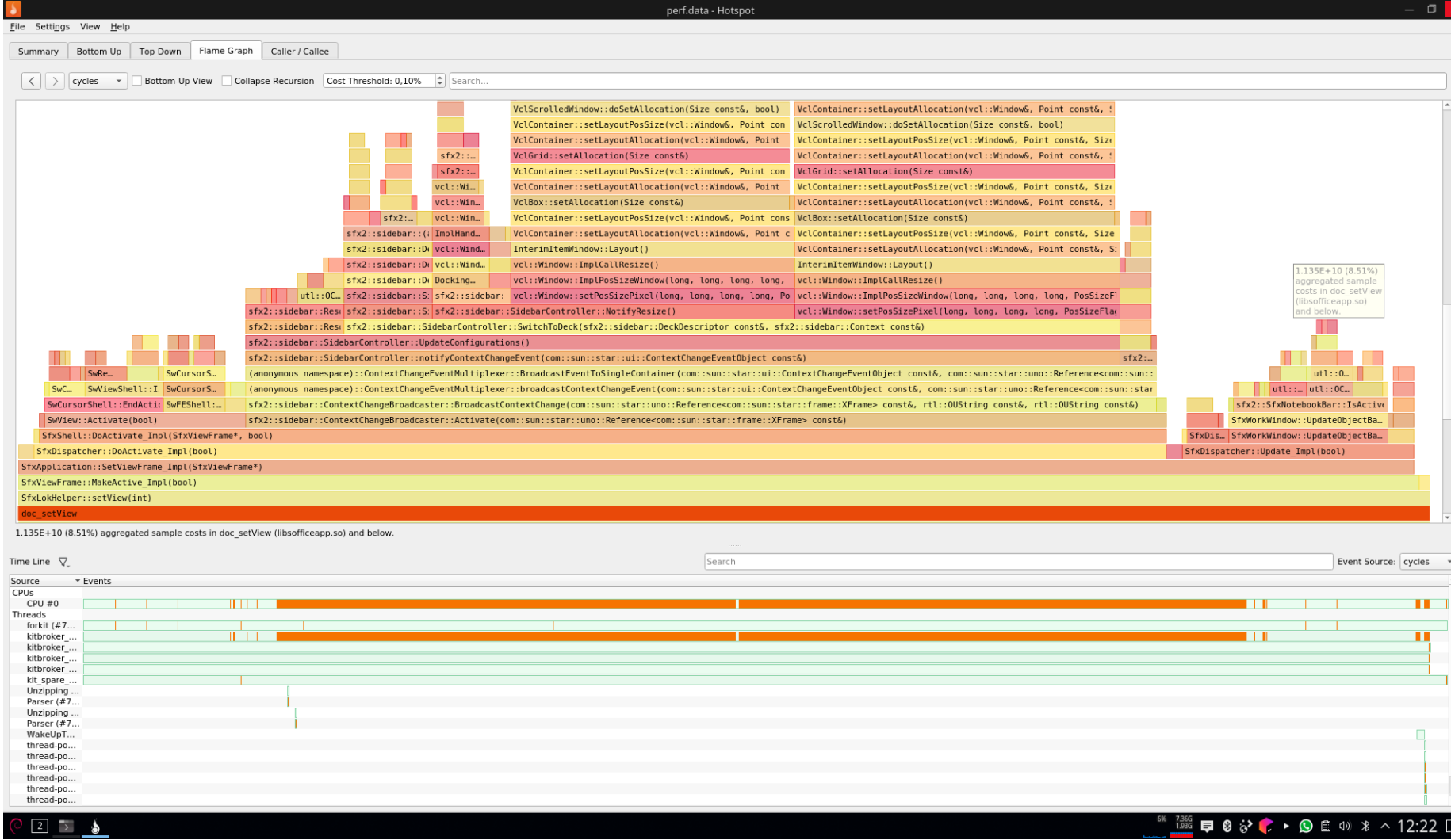


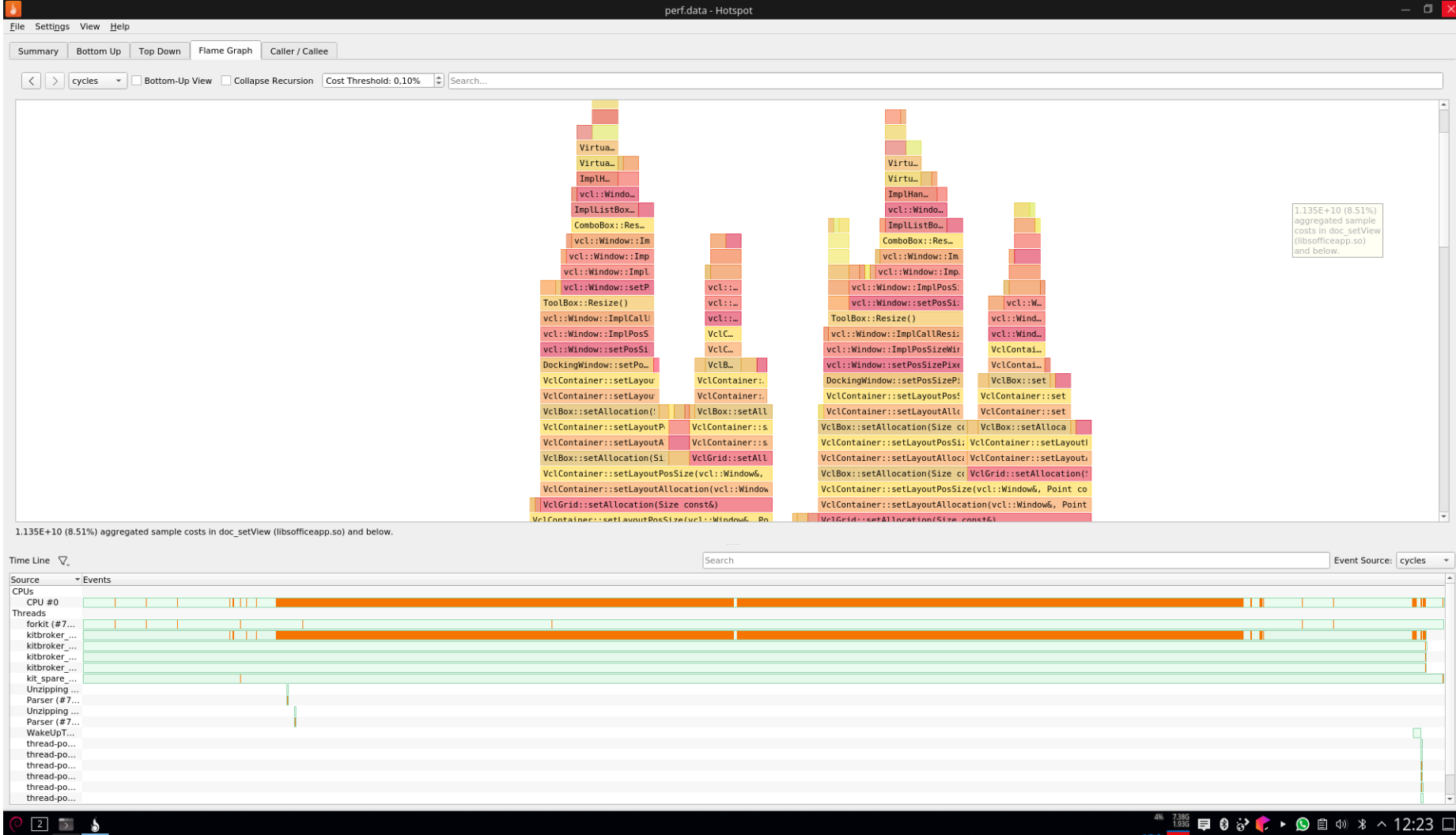
# Conclusion

## Easily discovered problems

- Sidebar, text composition, networking, rendering and much more.
- Performance gains up to 30% in cpu time
- Thanks to Michael, Miklos, Tor, Noel, Lubos, Tor









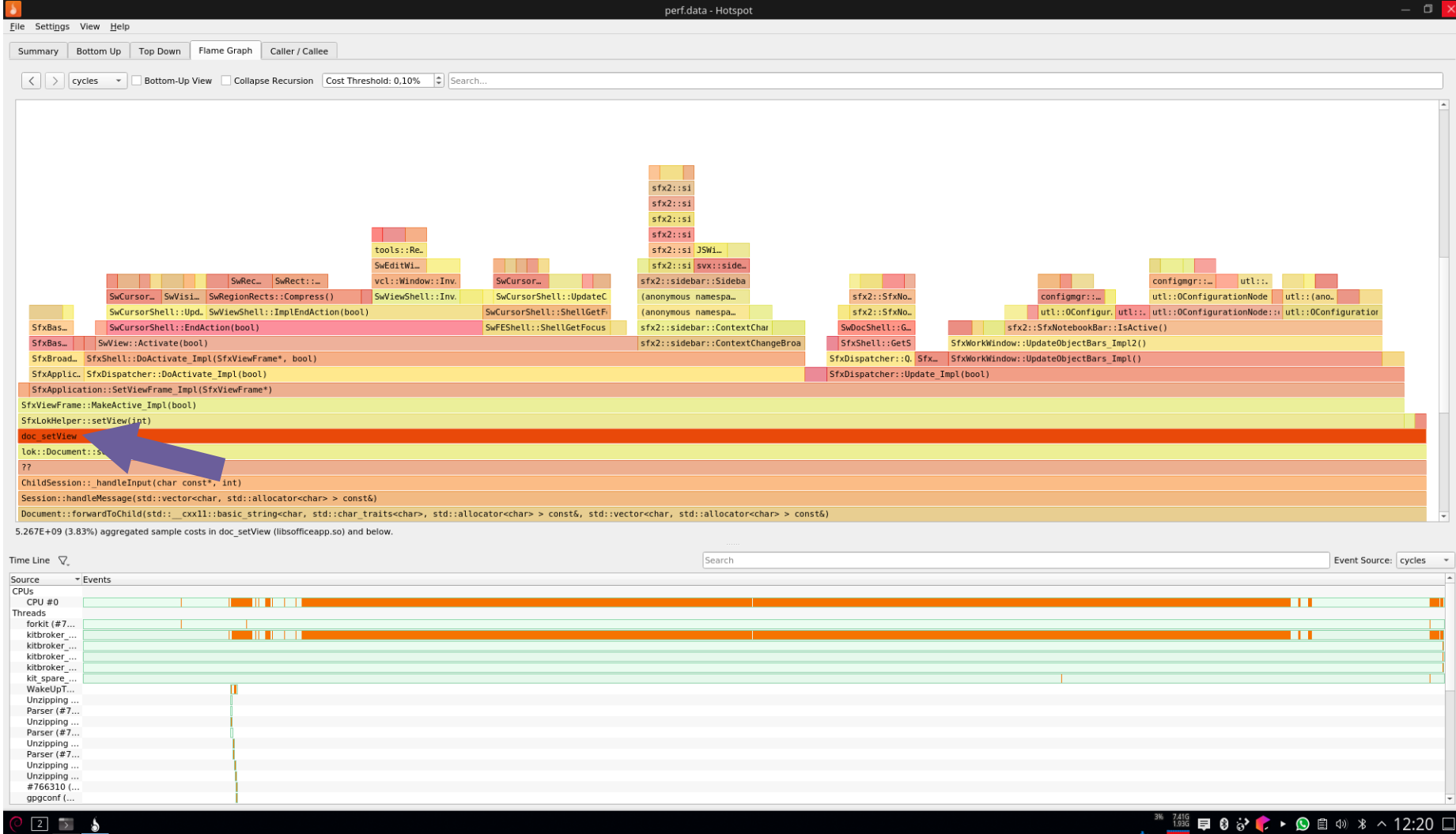
# Easy discovery

```
diff --git a/sfx2/source/sidebar/SidebarController.cxx b/sfx2/source/sidebar/SidebarController.cxx
index 266a69f..db4f967 100644
--- a/sfx2/source/sidebar/SidebarController.cxx
+++ b/sfx2/source/sidebar/SidebarController.cxx
```

---

```
@@ -333,7 +333,8 @@ void SAL_CALL SidebarController::notifyContextChangeEvent (const css::ui::Contex
                                // calling with held
                                // solarmutex

    // TODO: this call is redundant but mandatory for unit test to update context on document loading
-    UpdateConfigurations();
+    if (!comphelper::LibreOfficeKit::isActive())
+        UpdateConfigurations();
    }
}
```





# Thanks !



Collabora  
Online

By Mert Tümer

[mert.tumer@collabora.com](mailto:mert.tumer@collabora.com)  
[hello@collaboraoffice.com](mailto:hello@collaboraoffice.com)  
[Collaboraoffice.com](http://Collaboraoffice.com)