

# Single Process Mode

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# What is it?

- Normally Collabora Online runs LibreOffice Kit in separate processes
- This runs LOKit in the same process as coolwsd



# Why is it needed?

- Having multiple processes can complicate profiling and debugging
- Some tools, like valgrind, profile/analyze a single process at a time



# How to use it

- Configure with `--enable-debug`
- `coolwsd-inproc` executable
- `run-inproc` and `run-massif-inproc` make commands



# How does it work

- Follows the same code-paths as a normal execution as much as possible
- Spawns threads instead of processes
- The mobile app is also single process, but with lots of unique code-paths



# Limitations

- Can only handle one document, since multiple LOKit instances can't be run in the same process
- It can handle multiple users
- Skips some checks and events for simplicity like Unit test and some signals between processes



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# Thank you!

*By Jaume Pujantell*



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