

# Optimizing LibreOffice for a larger number of users

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Have you ever edited a document in LibreOffice in more than one window? Right, neither have I. Who'd think about LibreOffice and more than one user at the same time, right? Except ... somebody did and that's how collaborative editing based on LibreOffice works. For whatever strange reason, somewhen in the past somebody thought that implementing multiple views for one document in OpenOffice (StarOffice?) was a good idea. Just select Window->New Window in the menu and you can edit your favourite document in 50 views that each show a different part of the document and update in real time. And that, in fact, is how collaborative editing such as with Collabora Online works - open a document, create a new view for every user, and there you go.

But, given that this has never really been used that much, how well did the original relevant code perform and scale for more users? Well, not much, it turns out. Not a big surprise, considering that presumably back when that code was written nobody thought the same document could be edited by numerous users at the same time. But I've been looking exactly into this recently as part of optimizing Collabora Online performance, and boy, are there were gems in there. You thought that showing the same document in more views would just mean more painting also in those views? Nah, think again, this is OpenOffice code, the land of programming wonders.

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