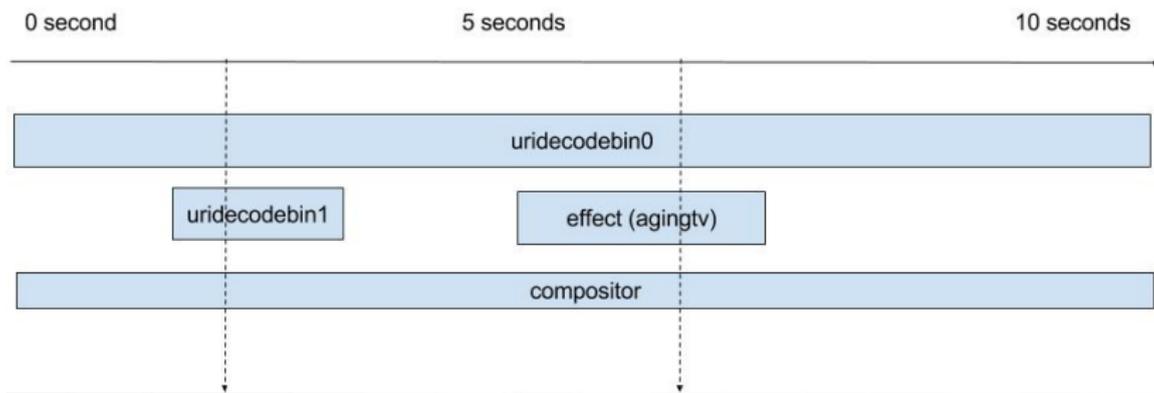


Non Linear Engine: replacement for GnonLin

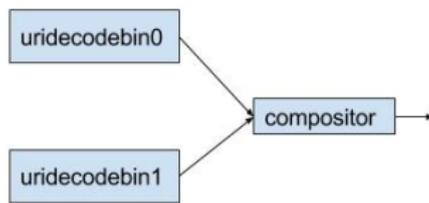
Thibault Saunier, Collabora Ltd.

What does NLE do?

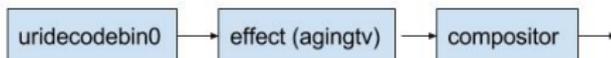
■ Time based pipeline sequencing



At 2 seconds in time the pipeline will look like:



At 7 seconds in time the pipeline will look like:



Lack of thread safety in Gnonlin

- `gnlcomposition` used to unlink/relink new pipelines from the streaming thread (where the EOS was received) or from the seeking thread
- In `nlecomposition` we introduced a new `master` thread where all the operations on children happen sequentially

Creation of many useless thread

- In GnlComposition we used to have all elements inside in PAUSED state → **many** thread created and just waiting
- In NleComposition elements are **not** inside it until they are actually needed (and are in READY state only)