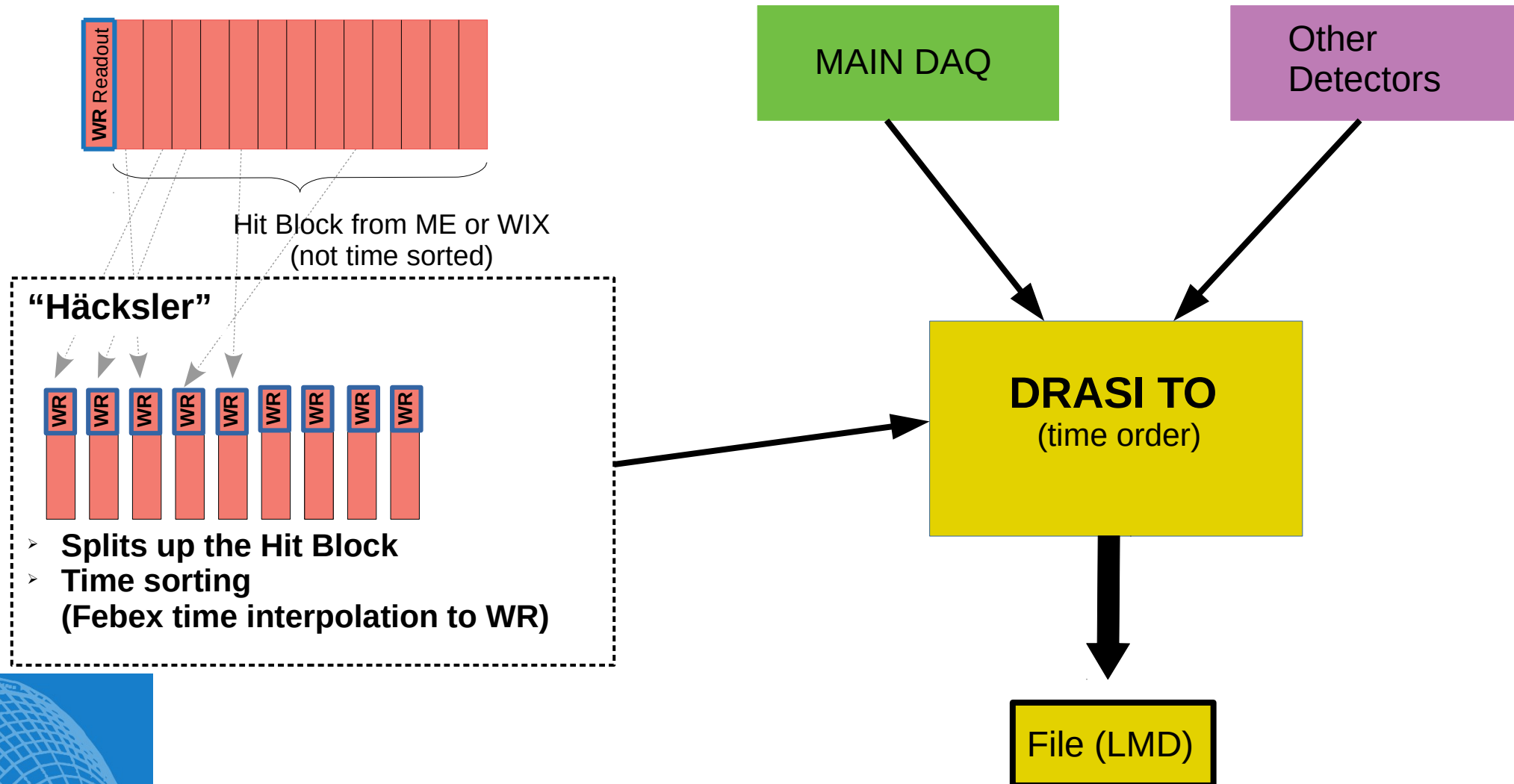
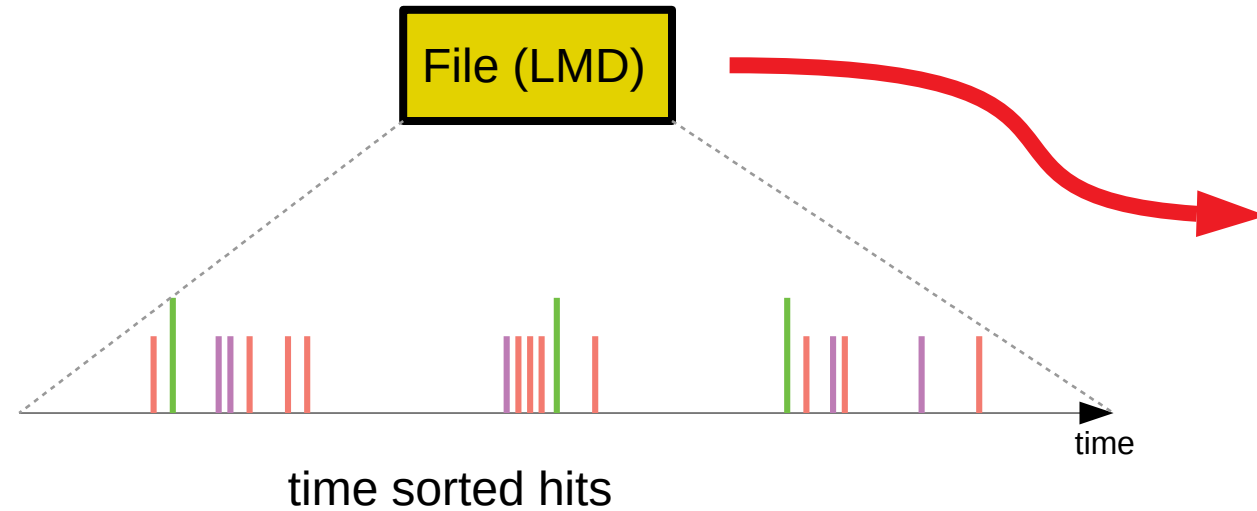


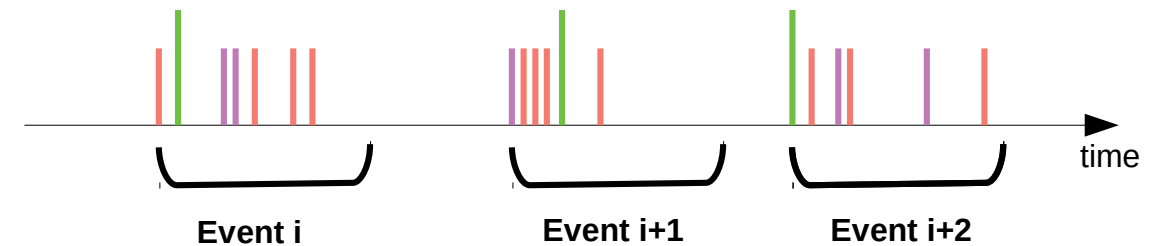
Data Acquisition/Event Building until 2020

CALIFA DAQ (Multi Event Readout)





Ucesb Time Stitcher



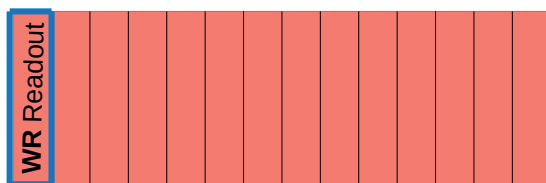
Time Stitching Algorithm

- First detected hit opens event window
- Time Stitcher **does not distinguish** between CALIFA, Main DAQ,.. hits
- Event window is closed after predefined time (eg. 8 μ s)



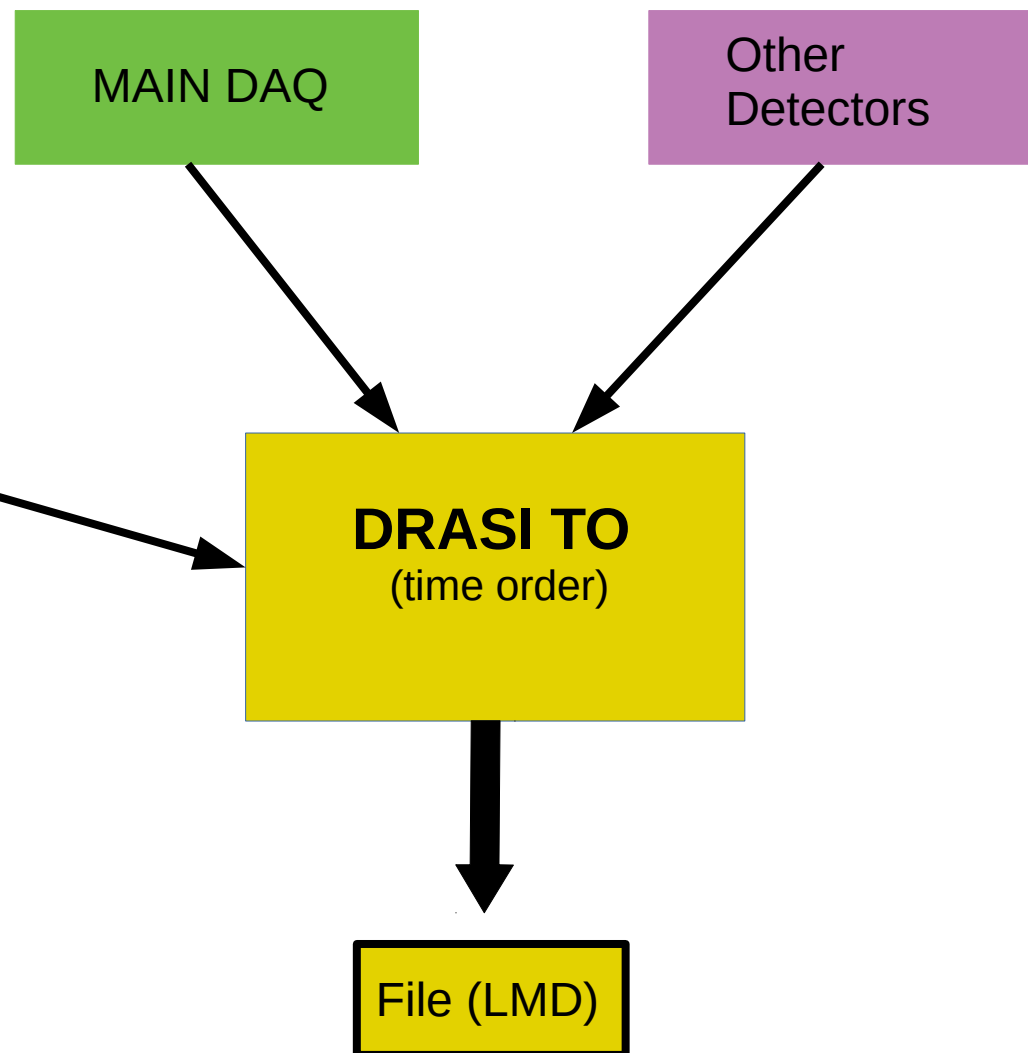
Data Acquisition/Event Building since 2021

CALIFA DAQ (Multi Event Readout)




Hit Block from ME or WIX
(not time sorted)

NO HÄCKSLER!



File (LMD)



- CALIFA Hits are collected to Hit Blocks (Messel or Wixhausen)
- Hit Blocks are sorted according to the WR Readout timestamp ()
- **Hits inside Block are not time sorted !**

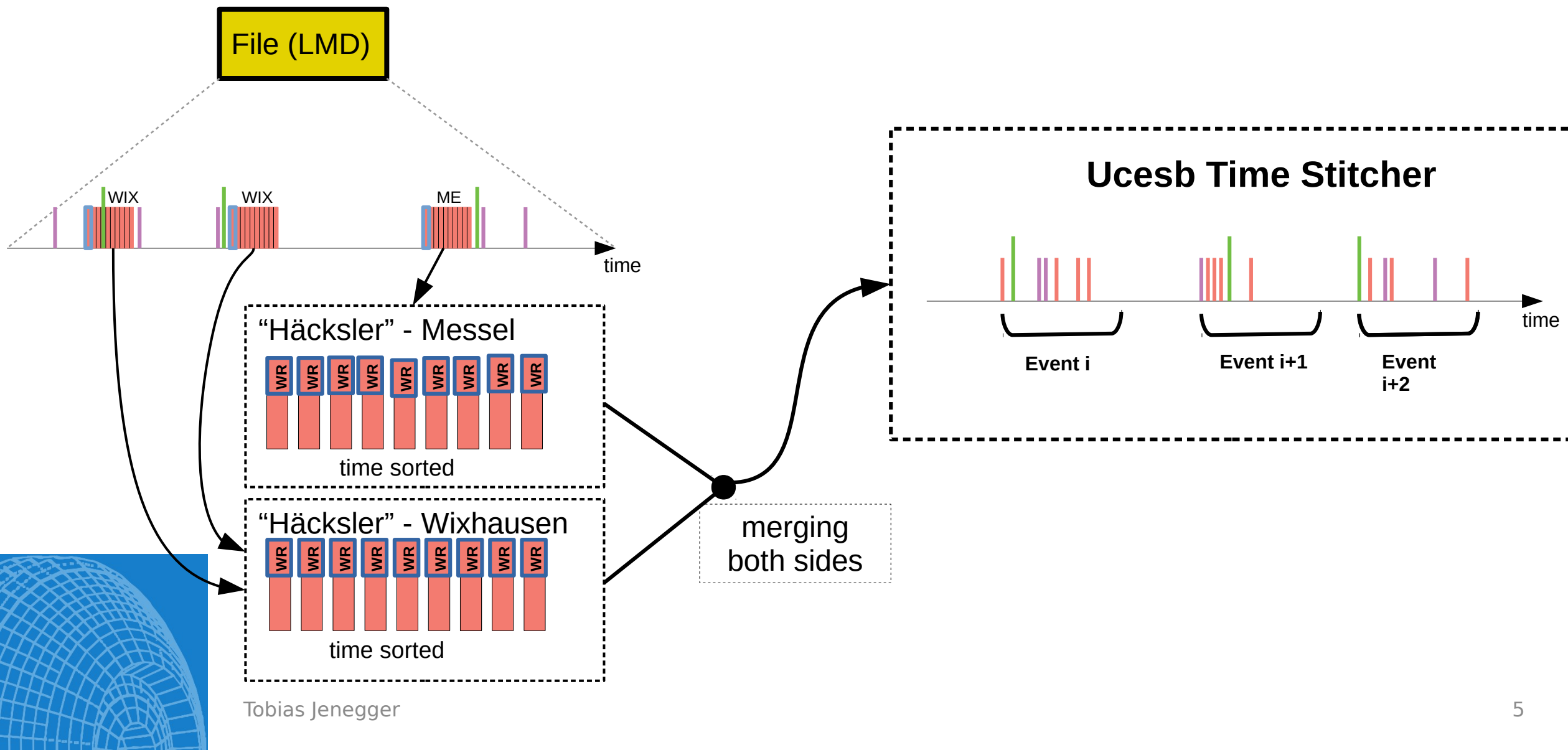


CALIFA single hit time sorting needed!

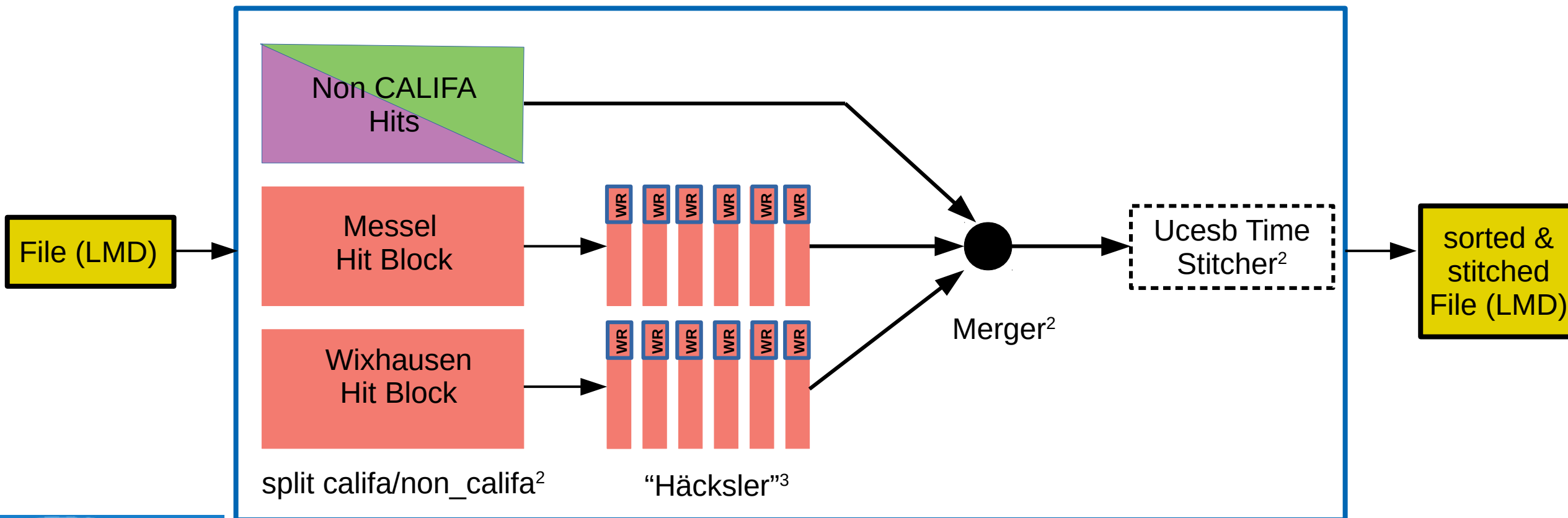




Offline Time Sorting and Stitching since 2021



`califa_merge_stitch.bash`¹



¹You can find it: `/u/land/lynx.landexp/202105_s494/scripts/califa_merge_stitch.bash`

²Unpacker: `/u/land/klenze/ucesb_gcc6/empty/empty`

³Unpacker: `/u/land/landexp/202105_s494/x86l-76/daq_bootstrap/ucesb_wip/empty/empty`