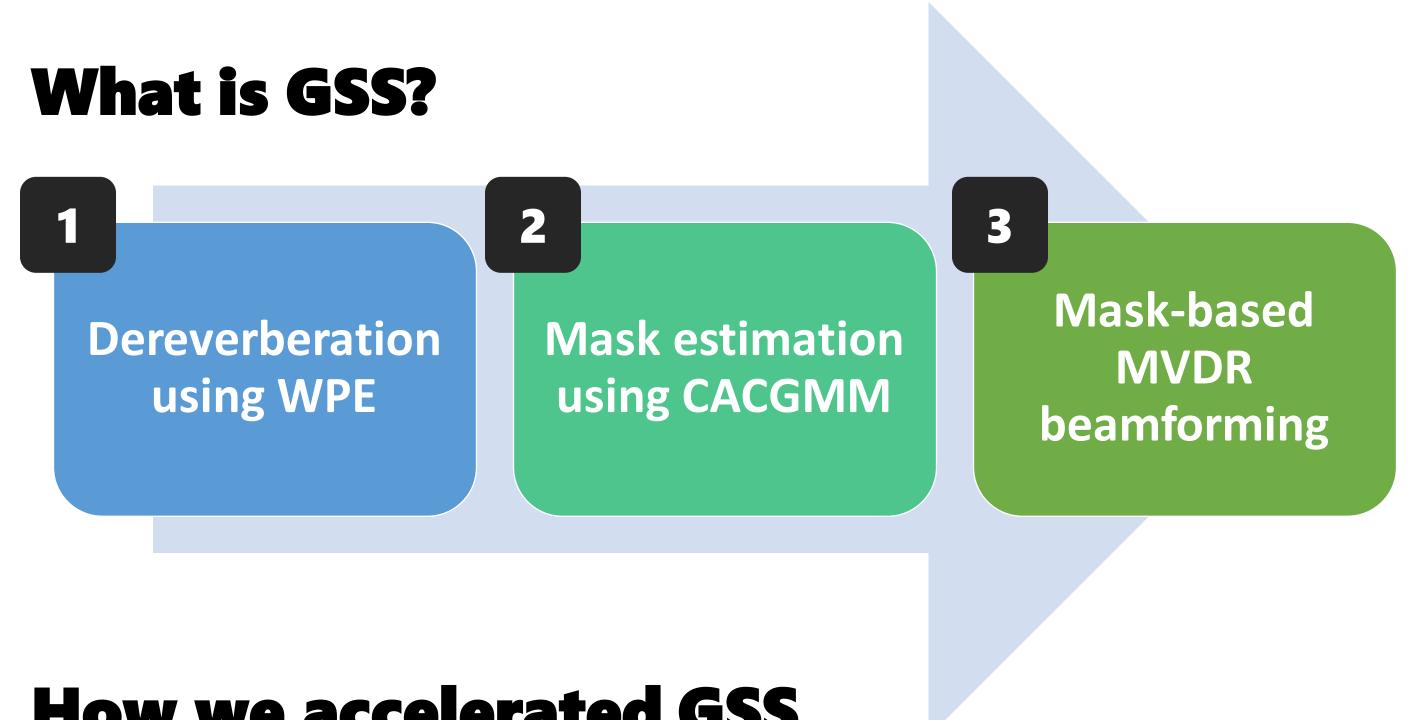
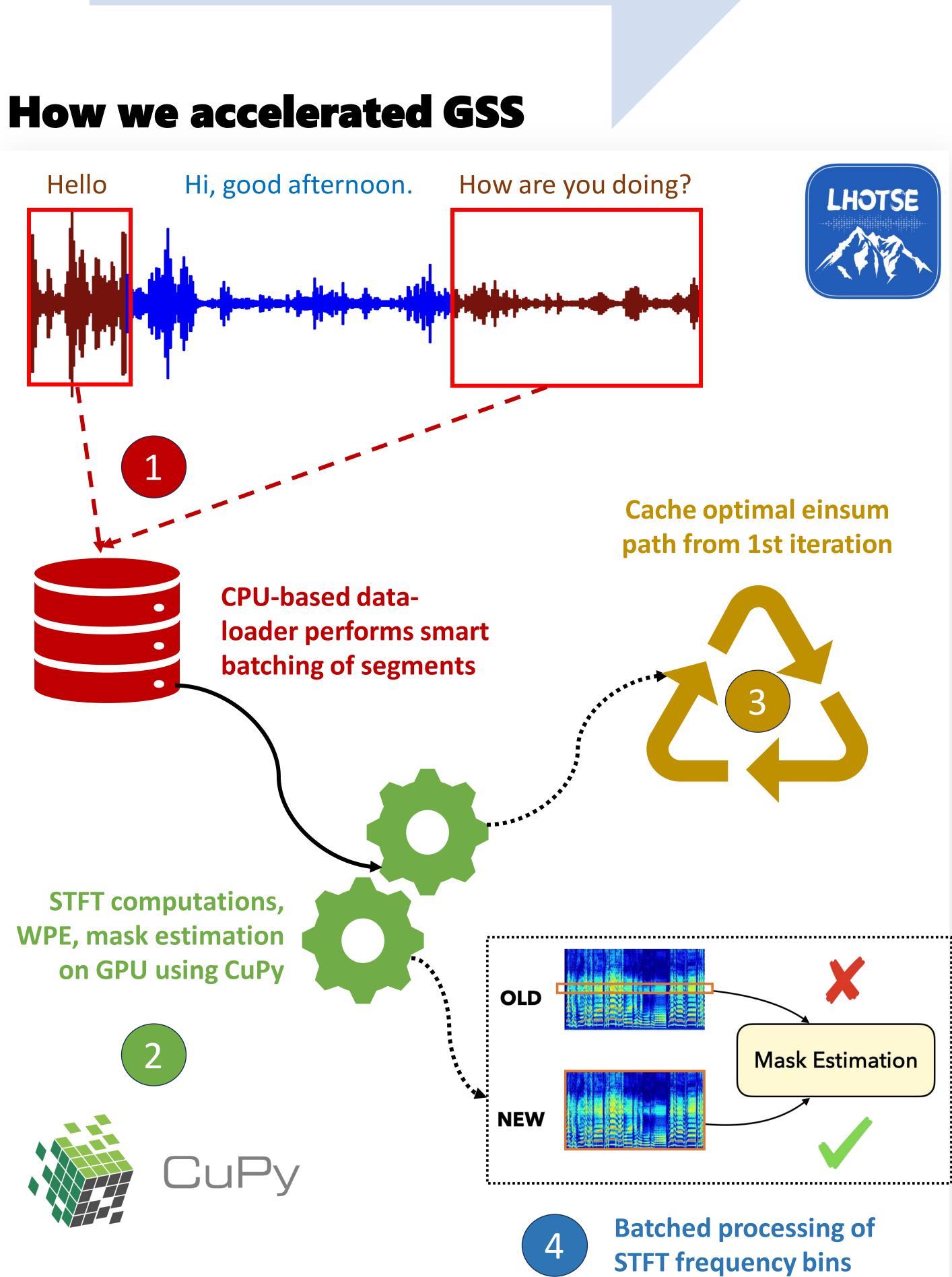
Robust front-end for CHiME-6.

Now~300xfaster!

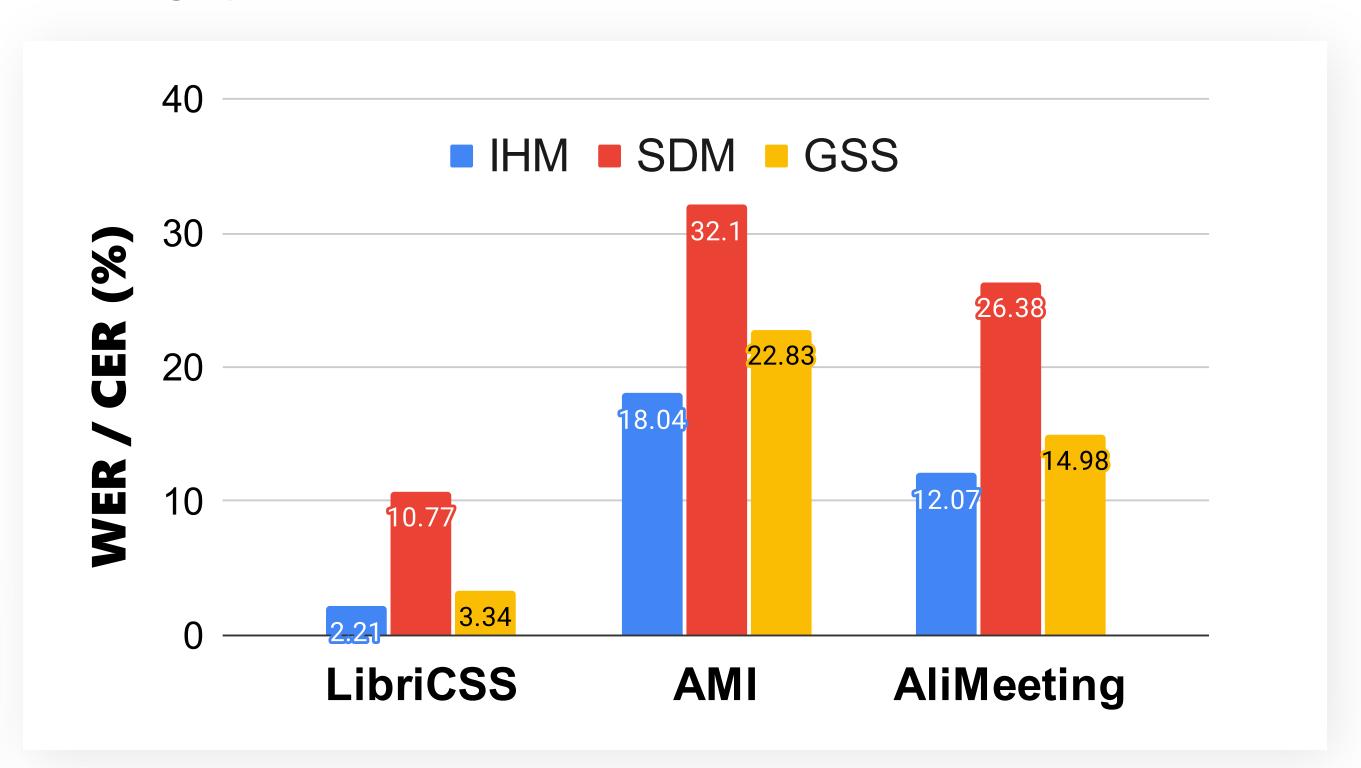
"GPU-accelerated Guided Source Separation for Meeting Transcription"

Background: GSS is an **unsupervised, multi-channel** <u>target-speaker extraction</u> method first proposed for CHiME-5 (Boeddeker et al.) and provided ~10% absolute WER reduction. We present an improved implementation which uses GPU-acceleration and modern data pipelines to make it significantly faster!

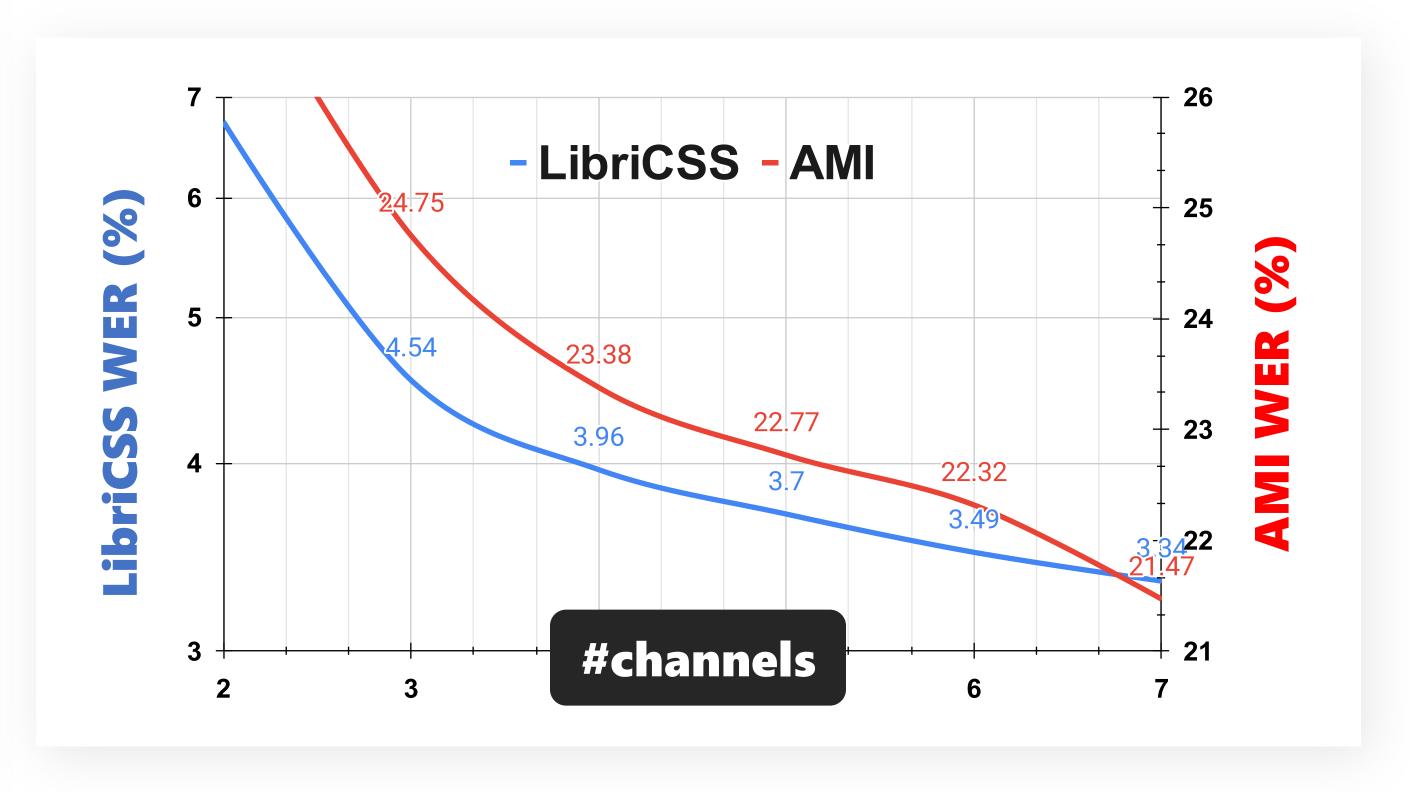


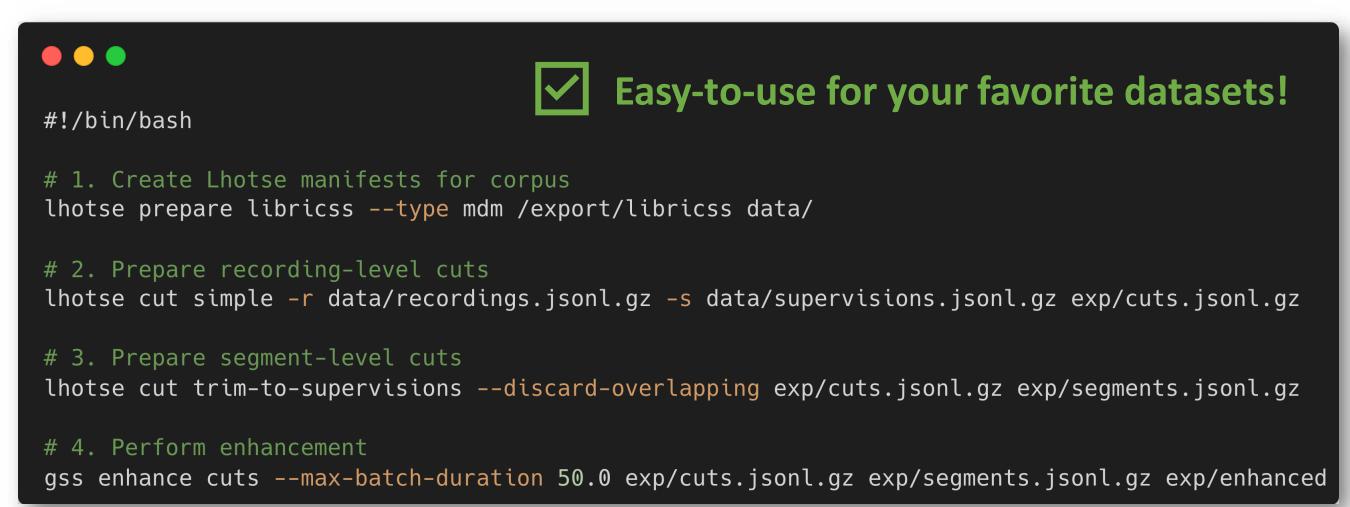


Take-away #1 GSS can recover up to 80% of the WER gap between close-talk and far-field ASR.



Take-away #2 More input channels give better GSS performance, but with diminishing returns.





Further reading: Check out the paper for results using overlap-aware diarization, analysis of GSS hyperparameters, including context size, number of iterations, and noise class, and more.





Boeddeker, Christoph et al. "Front-end processing for the CHiME-5 dinner party scenario." CHiME 2018.