SignLlava summary for LUMI hackaton 2024

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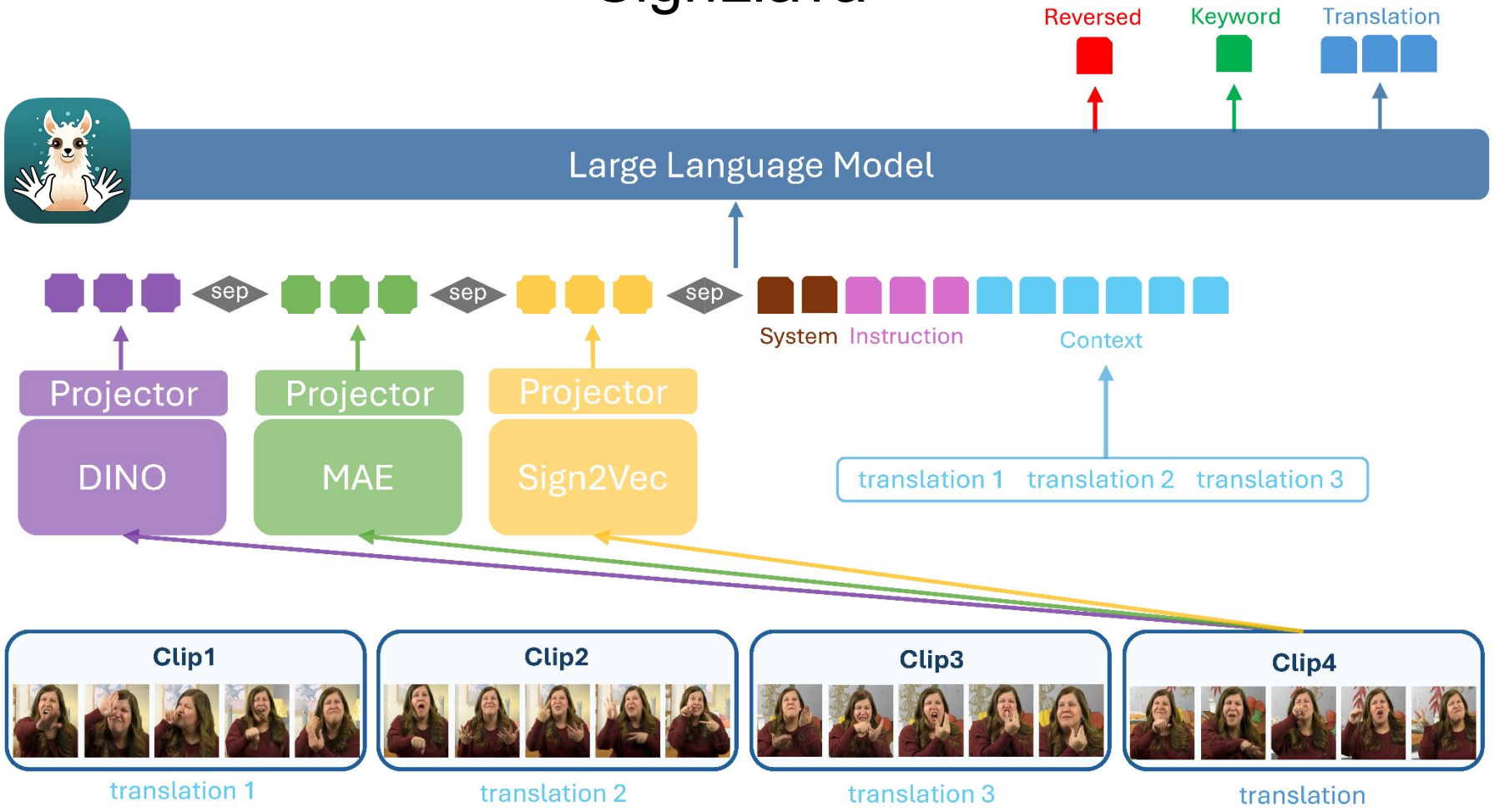
SignLlava


Reversed
Keyword
Translation
Large Language Model
sep
sep
sep
System
Instruction
Context
Projector
Projector
Projector
DINO
MAE
Sign2Vec
translation 1
translation 2
translation 3
Clip1
Clip2
Clip3
Clip4
translation 1
translation 2
translation 3
translation

Code Status

https://github.com/JSALT2024/Sign_LLaVA

- AMD support
- ZeRO2 code parallel, ZeRO3 experimental
- Running on single node with 8 GPUs
- We focussed on feature implementation so far
- Preliminary training experiments done (on LUMI)
- Wandb logging
- h5 data format

Hackaton goals

- Optimization of our model based on Llama3
- Multi-node training
- Using Llama-70b instead of Llama-8b
  - Correctly and efficiently use the model distribution
- Dealing with some existing problems
  - Correctly use flash-attention (1Torch was not compiled with flash attention)
  - Correctly use memory efficient attention (1Torch was not compiled with memory efficient attention)
  - SDPA attention implementation warnings for multi-node ROCM
- Moving our codes to latest Llama3.1 version