Sampled data in FITS format



Initialization Module

Read input data

Initialization of output grid and HEALPix grid

Initionalize output grid

- Resolution of observation
- Sample coordinates
- Output resolution

Initionalize HEALPix

- N_{side}
- Total number of Bloks
- Total number of rings



Gridding Module

CPU

- . Establish two-level lookup table
- . Multi-thread pre-ordering



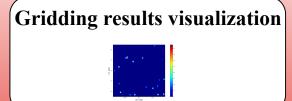
Gather-based, multi-thread GPU gridding





Result Processing Module

Correctness verification



FITS file Storage

