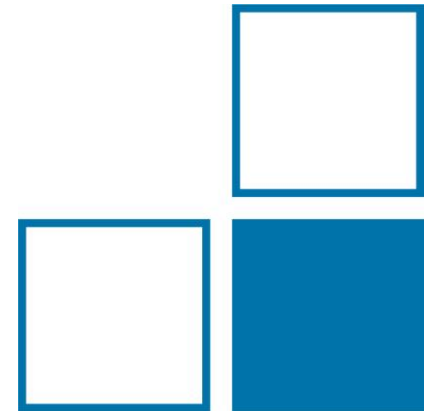
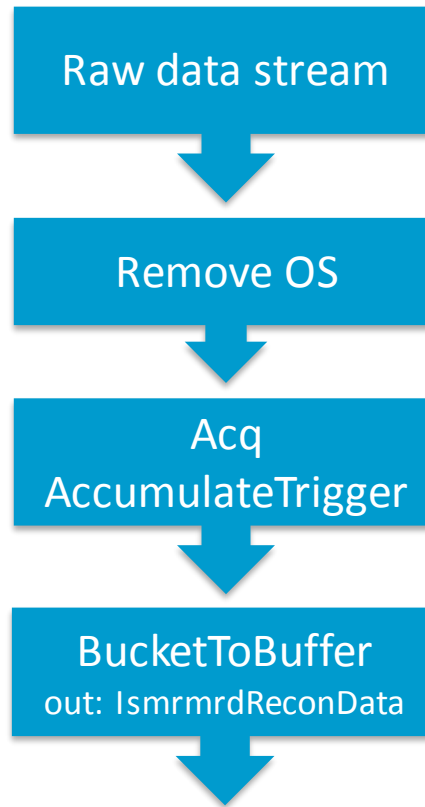


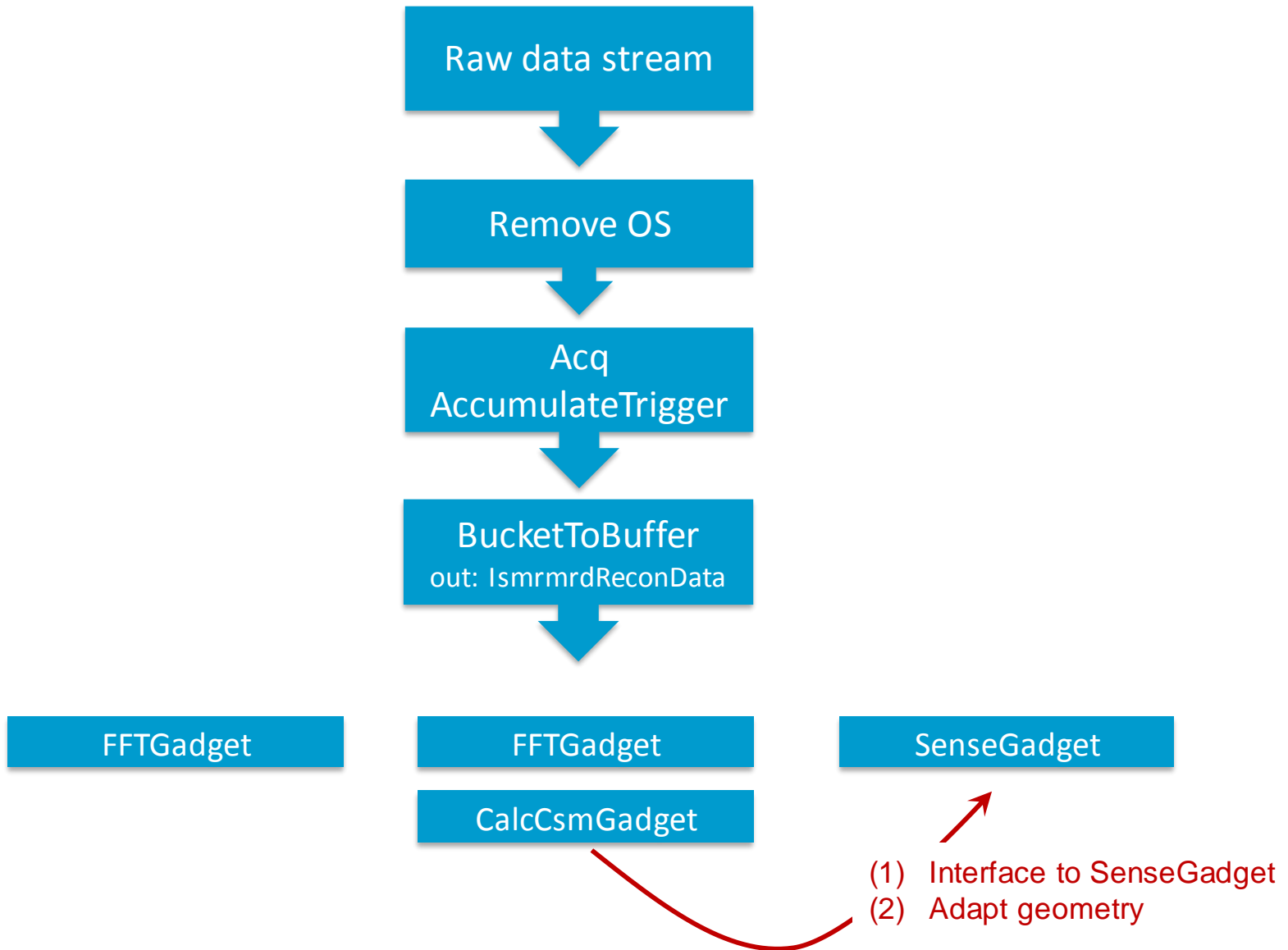
Possible Implementations of SENSE Reconstruction using



Christoph Kolbitsch







Option 1

gpuGenericSensePrepGadget

- in: hoNDArray for data and trajectory/dcf
- calculates CSM, regularisation image
- out: GenericReconJob
- /Gadgets/moco/config/gpureg_cartesian_averaging.xml

gpuBufferSensePrepGadget

- in: IsmrmrdReconData (ref, trajectory, dcf, data)
- calculates CSM, regularisation image
- out: GenericReconJob
- /python/config/python_ideal_cg.xml



gpuCgSenseGadget

gpuSenseGadget

gpuCgSpiritGadget

gpuCgKtSenseGadget

gpuNlcgSenseGadget

⋮

Option 1

gpuGenericSensePrepGadget

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gpuCgSenseGadget

gpuSenseGadget

gpuCgSpiritGadget

gpuCgKtSenseGadget

gpuNlcgSenseGadget

⋮

Option 2

GenericCartReconReferencePrepGadget

- in: IsmrmrdReconData (ref, data)
- selects calibration data
- out: IsmrmrdReconData
- /gadgets/mri_core/Generic_Cartesian_Grappa.xml



GenericCartGrappaReconGadget

- in: IsmrmrdReconData (ref, data)
- kernel calib, CSM, unfolding
- out: IsmrmrdReconData
- /gadgets/mri_core/Generic_Cartesian_Grappa.xml

Option 1

gpuBufferSensePrepGadget

- in: IsmrmrdReconData (ref, trajectory, dcf, data)
- calculates CSM, regularisation image
- out: GenericReconJob
- /python/config/python_ideal_cg.xml



gpuCgSenseGadget

gpuSenseGadget

gpuCgSpiritGadget

gpuCgKtSenseGadget

gpuNlcgSenseGadget

:

To do:

- Check if ref is in k-space or image space
- Interface to GenericReconJob object
- CPU implementations?
- Meeting with Michael Hansen?