

Yaseen

Jarred

Build DUCHAMP package

Build SoFiA package

Obtain datacube

Runnable package with input  
datacube and output catalogue

Single threaded C/C++  
implementation

Port 2D/1D Wavelet  
reconstruction of DUCHAMP  
onto GPU

Compare runtimes of CPU  
and GPU implementations

Optimise GPU implementation

Profile and Evaluate GPU  
implementation

Integrate into  
DUCHAMP package

Runnable package with input  
datacube and output catalogue

Single threaded C/C++  
implementation

Port S+C from SoFiA  
onto GPU

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Cross compare