

Pulsar Pipeline Checklist					
	tasks	Developer	Commissioner	Expected date of readiness	remarks
BG/P	TAB Pipeline	John Romain, Jan David Mol, Rob van Nieuwpoort	Jan David Mol, Jason Hessels	Done in early 2009	
	Design/preparatory work for BG/P 2nd transpose	John Romain, Jan David Mol, Rob van Nieuwpoort		Done	John, Jan David and Rob have completed the discussions; 4-phased for transpose prep, then transp
	Implement BG/P 2nd data transpose	Jan David Mol	John Romain, Jan David Mol	by March 2010	Rob will no longer be involved; Jan David will implement the entirety of the 2nd transpose
	Document "new" BFout stream (post 2nd transpose)	Jan David Mol	Jan David Mol, Alwin	1-2 days	Jan David is away until next Friday; Alwin to work with John Romain on BF TAB stream contents
	Test and bug fix 2nd transpose	Rob van Nieuwpoort, Jan David Mol, John Romain	Jan David Mol, Alwin de Jong, Jason Hessels	1-2 weeks	
	Integrate phase correction into TAB module	Jan David Mol, John	JD, Jason		
SAS / MAC	Integrate of TAB module into SAS/MAC	Jan David Mol, Ruud Overeem	Jan David Mol, Ruud Overeem		Need to ask Jan David for a status on this issue; rumor has it that this is working
	Offline Pipeline connection to SAS/MAC	John Swinbank, Ken Anderson, A2, Ruud Overeem	John Swinbank, Ken Anderson, A2, Ruud Overeem		John is working with Ruud on the messaging/communication aspect
BF2H5 online version	BeamFormed Writer (1st version to OLD ICD spec)	Alwin de Jong	Alwin de Jong, J. Hessels	Done	Working again; can read parset file and feed keys to header; works w/o UDP
	Test svn externals when building LOFARSOFT with the DAL	Lars Baehren, Marcel Loose, Alwin de Jong	Alwin de Jong, Marcel	in process, 1-week	Lars has spoken to Marcel and emailed relevant info; Lars to touch base with Marcel to implement ir
	Integrate DAL classes into BF2H5	Alwin de Jong	Alwin de Jong		
	Integrate parset reader into BF writer w/in LOFARSOFT	Alwin de Jong, Jan David Mol	Alwin de Jong		
	Integrate new BF H5 data format (ICD) into BF2H5 (raw data)	Alwin de Jong	Alwin de Jong, A2, J. Hessels		
	Integrate new BF H5 data format (ICD) into BF2H5 (BG/P out data)	Alwin de Jong, Jan David Mol	Alwin de Jong, A2, J. Hessels, Jan David Mol		
	Test writing 248 subbands at once to check efficiency	Alwin de Jong	Alwin de Jong, Jason		
BF ICD	Create mock BF H5 files with 4 types of data storage containers	A2	A2	Done	4 types are: 1D arrays, ND arrays, 1D tables, ND tables (note ND arrays are memory limited)
	Benchmark (DAL C++) 4 storage types to choose optimum BF container	A2, L. Baehren	A2, Jason Hessels	1-2 weeks	DAL is missing Array/Table real() methods from sub-groups; Lars to add functionality before benchm
	Finalize BF ICD	A2, L. Baehren, J. Romain, JD Mol, J. Hessels, K. Anderson	A2, Lars Baehren, J. Romain, JD Mol, J. Hessels, M. Wise		John Romain's comments and James Anderson's comments integrated; moved Coord Group; may c
	Identify source of metadata values (& calculations)	Hanno, R. Overeem, J. Hessels, M. Wise, Alwin de Jong, A2, B. Stappers			Put this as an adgenda item for discussion during the next BF status meeting
	Profile BF Observations (& Pipeline) for typical stats on sizes	J. Hessels, B. Stappers, M. Wise			should be a chart in the ICD to view typical data sizes for types of observations; waiting on Jason
DAL	Create DAL classes for BF metadata and structure (abide by ICD)	Lars Baehren, A2		in process	implemented three highest tiers of H5 structure (not yet lowest tier where the data structures are)
	Create DAL methods to access data from BF structure (abide by ICD)	Lars Baehren, A2			
	Wrap BF DAL classes and methods with Python for PyDAL	A2, Lars Baehren, K. Anderson	The Pulsar Group		
	Ongoing PyDAL updates and bugfixes	A2, Lars Baehren, Frank B.		in process	need to formalize the to-do and bug list
	Integrate HDF5 into file I/O for Presto/TEMPO/etc	A2	The Pulsar Group		
Pulsar Tools	Daily build of USG repository on offline cluster	Arno, Mike Wise, Lars			Mike to start up the process of asking Arno to include this in a daily build
	Integrate FFTW-3.1.2 into cmake	A2		Done	
	Integrate PGPLOT into cmake	A2		Done	note, depends on system install of PGPLOT
	Interate TEMPO into cmake	A2		Done	workaround for problems with reading files with line length > 70 chars; fix requested to developer
	Integrate PRESTO into cmake	A2; Lars	A2 fixing seg fault & other issues on new cluster build	1-2 weeks	accelsearch sef fault (non LOFAR data); cmake external dependencies can be made smarter (Lars)
	Integrate SIGPROC into cmake	A2	Ben Stappers, Joeri		
	Integrate PSRCHIV into cmake	A2	Ben Stappers		Does not build on the Mac (needs specific version of X11)
	Test software installation/components on new cluster	A2, J. Hessels, B. Stappers	The Pulsar Group	in process	fixing problems as they unfold
	Test software installation/components on user machines	Pulsar Group		in process; low priority	Ramesh would like a copy of the software suite within cmake; TEMPO doesn't build on Mac OS 10.6
	Integate "convert" (bf2presto) into cmake	A2	A2, Tom Hassal		
	Update/maintain/expand "convert" (bf2presto) program for BF observations	Tom Hassal, A2, Jan David Mol	A2, Tom Hassal, Jan David Mol, J. Hessels		Tom needs to check in his version into the ISG repository
	Assist Pulsar Group with integration of tools/scripts into cmake & USG	A2; Lars			
	Pulsar Pipeline Integration	Design Pulsar Pipeline for basic observing modes	J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise	The Pulsar Group	
Decide how to distribute the Pulsar Pipeline		M. Wise, L. Baehren, J. Hessels, A2, J. Swinbank			do we need to integrate the Transient S/W repository with the USG S/W repository?
Implement Pulsar Pipeline Design within the iPython Framework		A2, K. Anderson, J. Swinbank	A2, K. Anderson, J. Swinbank		current SH scripts pipeline described and sent to Ken; John & Ken to meet about iPhython Framewc
Pipeline Testing		A2, K. Anderson, J. Swinbank, J. Hessels, B. Stappers, J. Van Leeuwen	A2, J. Hessels, B. Stappers, J. Van Leeuwen		
Release Pulsar Pipeline		M. Wise			
Design Pulsar Pipeline(s) for other observing modes including survey		J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise			not needed for completion of first pipelline release
Design Pulsar Pipeline for "Quicklook" results in realtime		J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise	A2, K. Anderson, J. Swinbank		
Test Known Pulsar Quicklook Pipeline		J. Hessels, B. Stappers, A2, K. Anderson			
BF2H5 offline version	Extract UDPcopy and IonProc out of LOFARSOFT	Alwin de Jong, Jan David Mol, Masaya	Alwin de Jong		
	Extraction process of parameterDB out of LOFARSOFT & distribute offline	Mike to assign this issue to different group			
	Create standalone BF2H5 tool	Alwin de Jong, Masaya	Masaya, James Anderson		
Archive	Sync Archive schema with BF ICD	A. Renting, A2, L. Baehren, M. Wise, R. Overeem	A. Renting, A2, J. Hessels	in process	meetings took place to mesh the LOFAR ICD with the Archive schema
	Archive Pulsar raw data	A. Renting	A. Renting, A2, J. Hessels, M. Wise		

Archive Pulsar Pipeline Processed data

A. Renting, A2

A. Renting, A2, J. Hessels, M. Wise

Misc.

Remove PGPLOT from PRESTO

Lars Baehren, A2

The Pulsar Group

investigate S2PLOT or some other package which can be used in general for LOFAR data plotting  
not needed for pipeline release

Work with the VO on format/protocol issues for LOFAR HDF5 data

J. Swinbank, A2, M. Wise, K. Anderson

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