| Pulsar Pipeline Checklist | | |
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| | tasks | Developer |
| BG/P | TAB Pipeline | John Romain, Jan David Mol, Rob van Nieuwpoort |
| | Design/preparatory work for BG/P 2nd transpose | John Romain, Jan David Mol, Rob van Nieuwpoort |
| | Implement BG/P 2nd data transpose | Jan David Mol |
| | Document "new" BFout stream (post 2nd transpose) | Jan David Mol |
| | Test and bug fix 2nd transpose | Rob van Nieuwpoort, Jan David Mol, John Romain |
| | Integrate phase correction into TAB module | Jan David Mol, John |
| SAS / MAC/MoM | Integrate of TAB module into SAS/MAC | Jan David Mol, Ruud Overeem |
| | Offline Pipeline connection to SAS/MAC | John Swinbank, Ken Anderson, A2, Ruud Overeem |
| | MoM connection to SAS/MAC | Jason, Hanno, Antonis |
| BF2H5 online version | BeamFormed Writer (1st version to OLD ICD spec) | Alwin de Jong |
| | Test svn externals when building LOFARSOFT with the DAL | Lars Baehren, Marcel Loose, Alwin de Jong |
| | Integrate DAL classes into BF2H5 | Alwin de Jong |
| | Integrate parset reader into BF writer w/in LOFARSOFT | Alwin de Jong, Jan David Mol |
| | Integrate new BF H5 data format (ICD) into BF2H5 (raw data) | Alwin de Jong |
| | Integrate new BF H5 data format (ICD) into BF2H5 (BG/P out data) | Alwin de Jong, Jan David Mol |
| | Test writing 248 subands at once to check efficiency | Alwin de Jong |
| BF ICD | Create mock BF H5 files with 4 types of data storage containers | A2 |
| | Benchmark (DAL C++) 4 storage types to choose optimum BF container | A2, L. Baehren |
| | Finalize BF ICD | A2, L. Baehren, J. Romain, JD Mol, J. Hessels, K. Anderson |
| | Identify source of metadata values (& calculations) | Hanno, R. Overeem, J. Hessels, M. Wise, Alwin de Jong, A2, B. Stappers |
| | Profile BF Observations (& Pipeline) for typical stats on sizes | J. Hessels, B. Stappers, M. Wise |
| DAL | Create DAL classes for BF metadata and structure (abide by ICD) | Lars Baehren, A2 |
| | 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 |
| | Ongoing PyDAL updates and bugfixes | A2, Lars Baehren, Frank B. |
| | Integrate HDF5 into file I/O for Presto/TEMPO/etc | A2 |
| Pulsar Tools | Daily build of USG repository on offline cluster | Arno, Mike Wise, Lars |
| | Integrate FFTW-3.1.2 into cmake | A2 |
| | Integrate PPGPLOT into cmake | A2 |
| | Interate TEMPO into cmake | A2 |
| | Integrate PRESTO into cmake | A2; Lars |
| | Integrate SIGPROC into cmake | A2 |
| | Integrate PSRCHIV into cmake | A2 |
| | Integrate SSPS (Single Pulse sw and docs) into cmake | A2, Thijs Coenen |
| | Test software installation/components on new cluster | A2, J. Hessels, B. Stappers |
| | Test software installation/components on user machines | Pulsar Group |
| | Integate "convert" (bf2presto) into cmake | A2 |
| | Update/maintain/expand "convert" (bf2presto) program for BF observations | Tom Hassall, A2, Jan David Mol |
| | Assist Pulsar Group with integration of tools/scripts into cmake & USG | A2; Lars |
| | Maintain/upgrade Pulsar shell script pipeline | A2, Pulsar Group |
| Pulsar Pipeline Integration | Design Pulsar Pipeline for basic observing modes | J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise |
| | Decide how to distribute the Pulsar Pipeline | M. Wise, L. Baehren, J. Hessels, A2, J. Swinbank |
| | Implement Pulsar Pipeline Design within the iPython Framework | A2, K. Anderson, J. Swinbank |
| | Pipeline Testing | A2, K. Anderson, J. Swinbank, J. Hessels, B. Stappers, J. Van Leeuwen |
| | Release Pulsar Pipeline | M. Wise |

| | Design Pulsar Pipeline(s) for other observing modes including survey Design Pulsar Pipeline for "Quicklook" results in realtime (LOFAR opening) Test Known Pulsar Quicklook Pipeline | J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise J. Hessels, B. Stappers, A2, K. Anderson |
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| BF2H5 offline version | Extract UDPcopy and IonProc out of LOFARSOFT Extraction process of parameterDB out of LOFARSOFT & distribute offline Create standalone BF2H5 tool UDP reader/interpreter library (UK) | Alwin de Jong, Jan David Mol Mike to assign this issue to different group Alwin de Jong Alessio, Aris, Chris |
| Archive | | A. Renting, A2, L. Baehren, M. Wise, R. Overeem A. Renting A. Renting, A2 |

| Commissioner Jan David Mol, Jason Hessels John Romain, Jan David Mol Jan David Mol, Alwin Jan David Mol, Alwin de Jong, Jason Hessels JD, Jason Jan David Mol, Ruud Overeem John Swinbank, Ken Anderson, A2, Ruud Overeem | Expected date of readiness Done in early 2009 Done several weeks (mid-Apr) 1-2 days 1-2 weeks | remarks John, Jan David and Rob have completed the discussions; 4-phased for transpose prep, then transpose will no longer be involved; Jan David will implement the entirety of the 2nd transpose Jan David is away until next Friday; Alwin to work with John Romain on BF TAB stream contents Need to ask Jan David for a status on this issue; rumor has it that this is working John is working with Ruud on the messaging/communication aspect |
|--|---|--|
| Alwin de Jong, J. Hessels Alwin de Jong, Marcel Alwin de Jong Alwin de Jong Alwin de Jong, A2, J. Hessels Alwin de Jong, A2, J. Hessels, Jan David Mol Alwin de Jong, Jason | Done in process, 1-week | Working again; can read parset file and feed keys to header; works w/o UDP Lars has spoken to Marcel and emailed relevant info; Lars to touch base with Marcel to implement ir |
| A2 A2, Jason Hessels A2, Lars Baehren, J. Romain, JD Mol, J. Hessels, M. Wise ; | Done 1-2 weeks in process | 4 types are: 1D arrays, ND arrays, 1D tables, ND tables (note ND arrays are memory limited) DAL is missing Array/Table real() methods from sub-groups; Lars to add functionality before benchm John Romain's comments and James Anderson's comments integrated; moved Coord Group; may c Put this as an adgenda item for discussion during the next BF status meeting should be a chart in the ICD to view typical data sizes for types of observations; waiting on Jason implemented three highest tiers of H5 structure (not yet lowest tier where the data structures are) |
| The Pulsar Group The Pulsar Group | in process | need to formalize the to-do and bug list |
| A2 fixing seg fault & other issues on new cluster build Ben Stappers, Joeri Ben Stappers A2, Thijs Coenen, Joeri The Pulsar Group A2, Tom Hassall A2, Tom Hassall, Jan David Mol, J. Hessels A2, Tom Hassall The Pulsar Group | Done Done 1-2 weeks in process in process; low priority | Mike to start up the process of asking Arno to include this in a daily build note, depends on system install of PGPLOT workaround for problems with reading files with line length > 70 chars; fix requested to developer accelsearch sef fault (non LOFAR data); cmake external dependencies can be made smarter (Lars) Does not build on the Mac (needs specific version of X11) Does not build on the Mac (needs specific version of X11) fixing problems as they unfold Ramesh would like a copy of the software suite within cmake; TEMPO doesn't build on Mac OS 10.6 Tom needs to check in his version into the ISG repository A2 updated to use 8-cores per mode; speed increase 5-6 times create use-cases and map these to tools/parameter settings; start at PBW #6 do we need to integrate the Transient S/W repository with the USG S/W repository? |
| A2, K. Anderson, J. Swinbank A2, J. Hessels, B. Stappers, J. Van Leeuwen | | current SH scripts pipeline described and sent to Ken; John & Ken to meet about iPhython Framewo |

A2, K. Anderson, J. Swinbank

Alwin de Jong

Masaya, James Anderson Alessio, Aris, Chris, Alwin

A. Renting, A2, J. Hessels

A. Renting, A2, J. Hessels, M. Wise A. Renting, A2, J. Hessels, M. Wise not needed for completion of first pipelline release

may no longer be needed b/c of UDP convert library effort from the UK

1st version Apr 7th on target to meet one month deadline from start-up of project

in process meetings took place to mesh the LOFAR ICD with the Archive schema