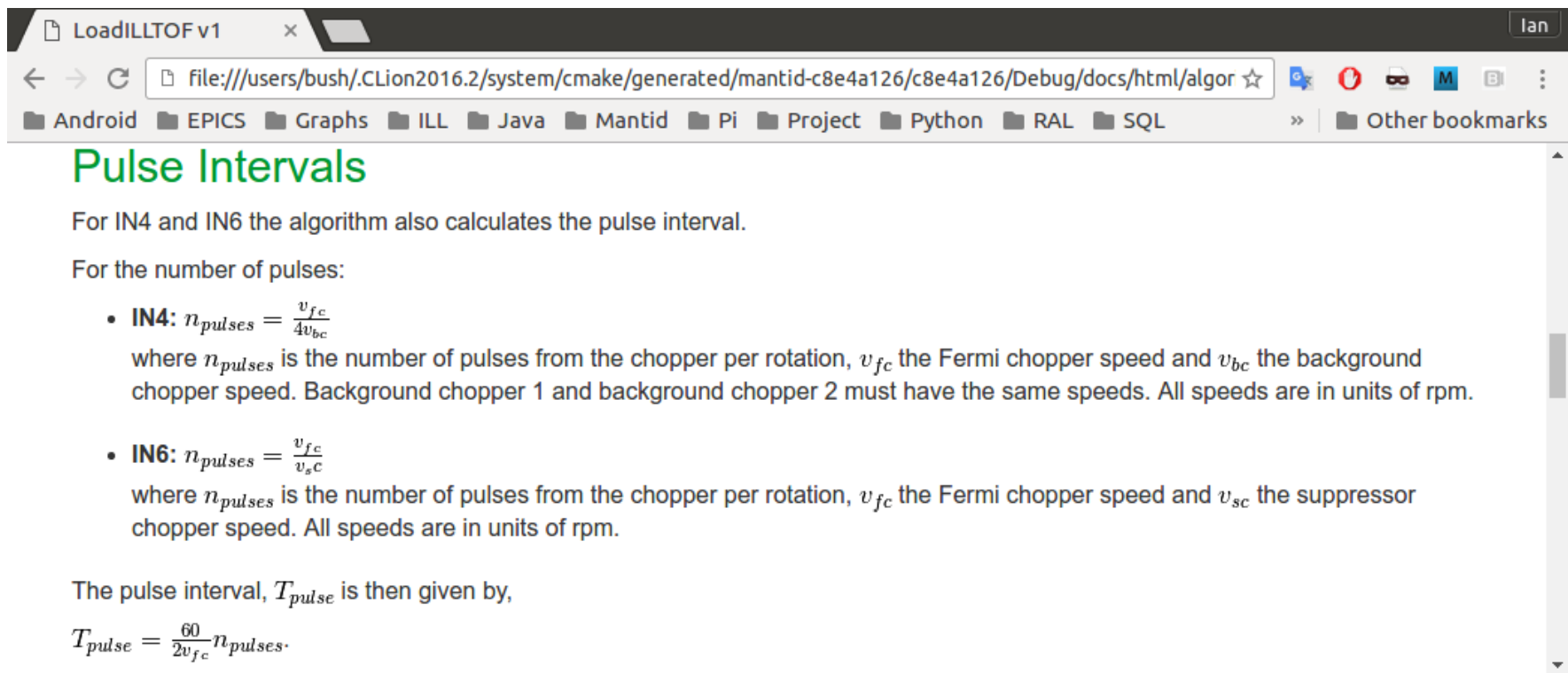


ToF Workflow

Sprint Review Meeting 04/10/2016

LoadILLTOF

- Calculates the pulse interval for IN4 and IN6 and adds it as a `pulse_interval` sample log



LoadILLTOF v1

file:///users/bush/.CLion2016.2/system/cmake/generated/mantid-c8e4a126/c8e4a126/Debug/docs/html/algor

Android EPICS Graphs ILL Java Mantid Pi Project Python RAL SQL Other bookmarks

Pulse Intervals

For IN4 and IN6 the algorithm also calculates the pulse interval.

For the number of pulses:

- IN4:** $n_{pulses} = \frac{v_{fc}}{4v_{bc}}$
where n_{pulses} is the number of pulses from the chopper per rotation, v_{fc} the Fermi chopper speed and v_{bc} the background chopper speed. Background chopper 1 and background chopper 2 must have the same speeds. All speeds are in units of rpm.
- IN6:** $n_{pulses} = \frac{v_{fc}}{v_{sc}}$
where n_{pulses} is the number of pulses from the chopper per rotation, v_{fc} the Fermi chopper speed and v_{sc} the suppressor chopper speed. All speeds are in units of rpm.

The pulse interval, T_{pulse} is then given by,

$$T_{pulse} = \frac{60}{2v_{fc}} n_{pulses}.$$

MergeRuns single

- MergeRuns single workspace
 - PR Open
 - Also fixes mixed workspace issue – test for this was passing, but for the wrong reasons

ToF Workflow

- Uses MergeRuns, ExtractMonitors
- Uses `pulse_interval` from modified loader
- Basic input validation, workspace input
- Basic unit tests added for IN4 and IN6
- Bug fixes

DGSRReductionILL input dialog

Data reduction workflow for the direct geometry time-of-flight spectrometers at ILL

InputFile	ca/UnitTest/ILL/IN6/164192.nxs	<input type="button" value="Browse"/>	<input type="button" value="X"/>
InputWorkspace	<input type="text"/>		
OutputPrefix	<input type="text"/>		
	<input type="checkbox"/> ControlMode		
ReductionType	Sample		
Normalisation	Monitor		
VanadiumWorkspace	<input type="text"/>		
EmptyCanWorkspace	<input type="text"/>		
CadmiumWorkspace	<input type="text"/>		
EPPWorkspace	<input type="text"/>		
MonitorEPPWorkspace	<input type="text"/>		
FlatBackgroundScaling	1		
FlatBackgroundAveragingWindow	30		
FlatBackgroundWorkspace	<input type="text"/>		
MonitorIndex	0		
SpectrumMask	<input type="text"/>		
Transmission	1		
QBinning	<input type="text"/>		
WBinning	<input type="text"/>		
IncidentEnergyCalibrationDetectors	<input type="text"/>		
IndexType	WorkspaceIndex		
OutputEPPWorkspace	<input type="text"/>	<input type="button" value="Browse"/>	
OutputMonitorEPPWorkspace	<input type="text"/>	<input type="button" value="Browse"/>	
OutputFlatBackgroundWorkspace	<input type="text"/>	<input type="button" value="Browse"/>	
OutputWorkspace	ws	<input type="button" value="Browse"/>	<input type="button" value="Clock"/>

? Keep Open ☐

Work to Do for Next Week

- NoBugs talk
- Design document for Scanning Instruments