

IN6/ToF Updates

Sprint Review Meeting 09/08/2016

IN6 IDF

- Committed awaiting review
- Idea to load monitors separately not compatible with `Load` for multiple files
- Ticket to create `SeparateMonitorSpectra` algorithm
- `LoadILL` renamed to `LoadILLINX`, tests added for IN4/6 loading

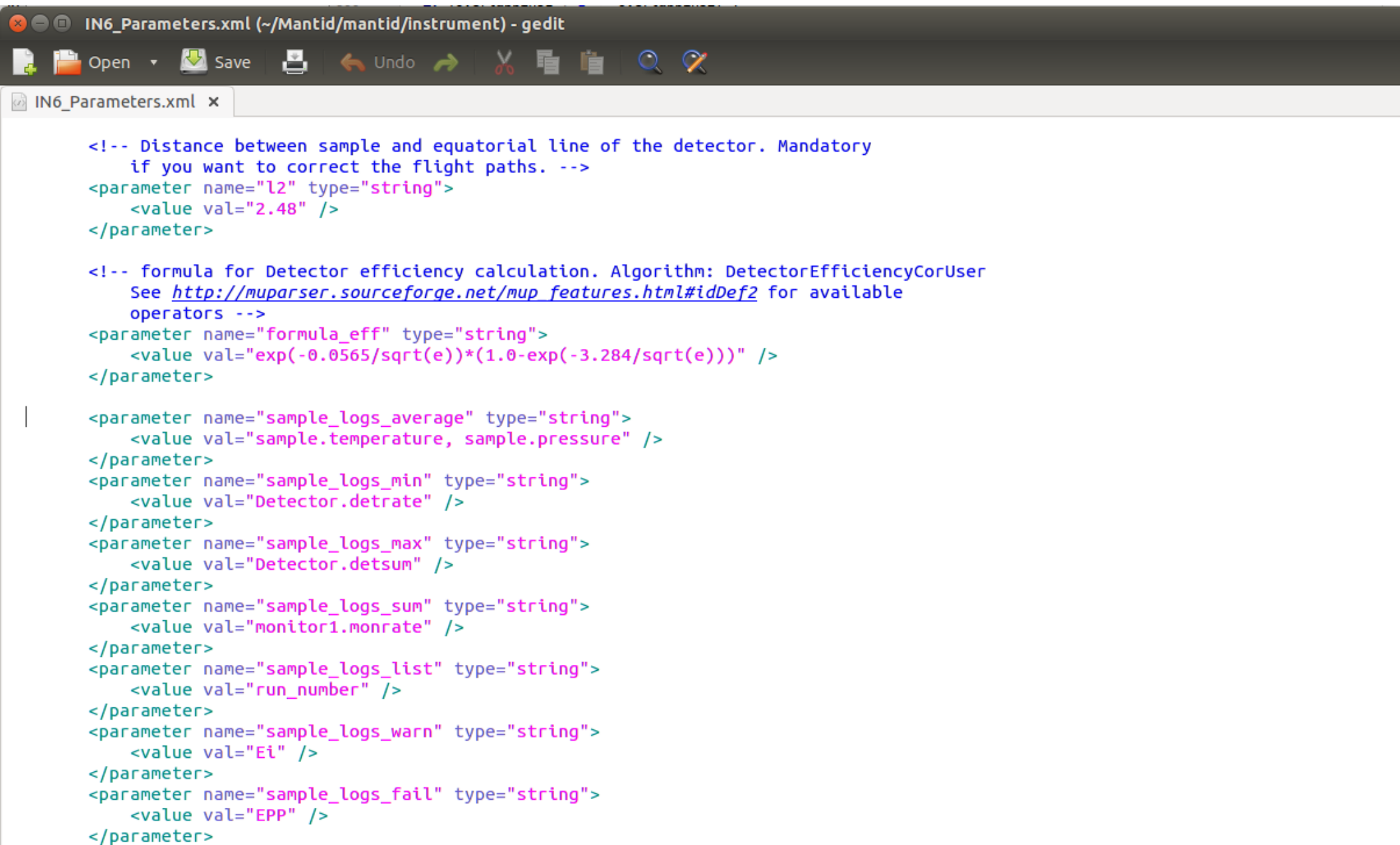
Detector Mapping

164192-Detectors-1								
	Index	Spectrum No	Detector ID(s)	R	Theta	Q	Phi	Monitor
1	0	1	1001	0,273	180	3,03535531...	0	yes
2	1	2	1002	0,57	0	0	0	yes
3	2	3	1003	2,483	0	0	0	yes
4	3	4	1	2,48351760...	10,3301987...	0,27326071...	180	no
5	4	5	2	2,48305751...	11,1100180...	0,29382657...	180	no
6	5	6	3	2,48305751...	11,8899819...	0,31438263...	180	no
7	6	7	4	2,48351760...	12,6698012...	0,33492032...	180	no
8	7	8	5	2,48351760...	13,7301987...	0,36282238...	180	no
9	8	9	6	2,48305751...	14,5100180...	0,38332195...	180	no
10	9	10	7	2,48305751...	15,2899819...	0,40380755...	180	no
11	10	11	8	2,48351760...	16,0698012...	0,42427066...	180	no
12	11	12	9	2,48323006...	17,1300722...	0,45206136...	139,586211...	no
13	12	13	10	2,48351760...	17,1301987...	0,45206467...	180	no
14	13	14	11	2,48323006...	17,1300722...	0,45206136...	-139,58621...	no
15	14	15	12	2,48300000	17,90999999	0,47247942	139,586211	no

MergeRuns Extension

- Behaviours:
 - Numeric – Average, Min, Max, Sum
 - Other – List, Warn, Fail
- List of IN4/6 Sample Logs –
<https://goo.gl/d4uBTf>
- Still some work to complete this

Instrument Parameter File



```
<!-- Distance between sample and equatorial line of the detector. Mandatory
      if you want to correct the flight paths. -->
<parameter name="l2" type="string">
  <value val="2.48" />
</parameter>

<!-- formula for Detector efficiency calculation. Algorithm: DetectorEfficiencyCorUser
      See http://muparser.sourceforge.net/mup\_features.html#idDef2 for available
      operators -->
<parameter name="formula_eff" type="string">
  <value val="exp(-0.0565/sqrt(e))*(1.0-exp(-3.284/sqrt(e)))" />
</parameter>

<parameter name="sample_logs_average" type="string">
  <value val="sample.temperature, sample.pressure" />
</parameter>
<parameter name="sample_logs_min" type="string">
  <value val="Detector.detrade" />
</parameter>
<parameter name="sample_logs_max" type="string">
  <value val="Detector.detsum" />
</parameter>
<parameter name="sample_logs_sum" type="string">
  <value val="monitor1.monrate" />
</parameter>
<parameter name="sample_logs_list" type="string">
  <value val="run_number" />
</parameter>
<parameter name="sample_logs_warn" type="string">
  <value val="Ei" />
</parameter>
<parameter name="sample_logs_fail" type="string">
  <value val="EPP" />
</parameter>
```

Work to Do...

- Finish Merge Runs
- ToF Workflow Algorithm...