

Indirect Reduction Update

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Sprint Meeting, 06.09.2016, ILL

Status

PR	Task	Slide	Status
#17407	Make MultipleFileProperty to support OptionalLoad action	#3	Done, pending review
#17361	Small patch to SelectNexusFilesByMetadata to handle also '+'	#4	Done, pending review
#17392	DataSelector GUI widget to support properties of it's child widgets MWRunFiles and WorkspaceSelector	#5	Done, need to test
#17388	Move plot and save from python to GUI for Indirect ISIS Reduction		Reviewing, comments collected

MultiFileProperty optional

Supported actions for **FileProperty**

Action	Direction
Load (default)	Input
OptionalLoad	Input
Save	Output
OptionalSave	Output
Directory	Input
OptionalDirectory	Input

MultiFileProperty
was supporting only this
behaviour with no possibility to
configure

Now it will support also this

And we probably
won't need the rest

Implementation

Python API

MultiFileProperty

C++ API

MultiFileProperty

Kernel

MultiFileValidator

SelectNexusFilesByMetadata patch

Example :

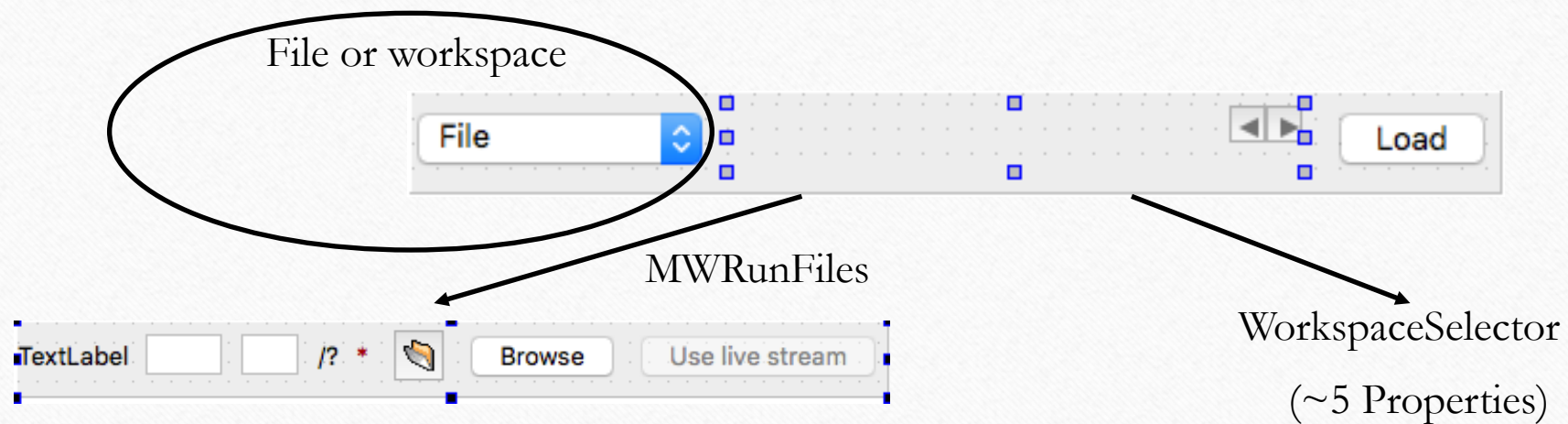
```
runs = SelectNexusFilesByMetadata('RUN1,RUN2 + RUN3 + RUN4',"velocity.profile == 1")
```

If Run3 does not satisfy, the result will be :

```
runs = RUN1,RUN2 + RUN4
```

And summing workspaces with different profiles should be forbidden with IPF in MergeRuns

DataSelector GUI widget



~10 Properties:

1. **multipleFiles**
2. **algorithmAndProperty**
3. **autoLoad**
4. ...

- Implemented all of the properties, but difficult to test (especially LiveButtonOpts, etc.)
- Btw, WorkspaceSelector seems to have a bug: sometimes it is not possible to select empty

Next sprint(s):

Task description (all in #16753 IndirectILLReduction branch)

Move `plot()` and `save()` from IndirectILLReduction python algorithm to GUI backend

Set IN16B as default instrument, and append ILL/IN16B to `datasearch.directories` in IndirectILLReduction unit tests (and restore previous values after the test is run)

Configure all auxiliary files (i.e. background, vanadium, calibration) to be optional multiple files (with automatic summing)

Add a system test for the maximum set of options (i.e. calibration, background, unmirror 7)

Adjust the documentation of the GUI (it is different from the algorithm documentation)

Review PR #17221 (Enable OpenMPI on Mac OS with clang 3.7)