

ctools - Change request #2501

Change handling of spatial ROI selection in ctselect

06/08/2018 06:05 PM - Tibaldo Luigi

Status:	Closed	Start date:	06/08/2018
Priority:	Normal	Due date:	
Assigned To:	Tibaldo Luigi	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	1.6.0		
Description			
<p>Currently ctselect by default has usepnt set to False, meaning that the user has to provide the center and radius of the desired ROI. If the requested ROI center is outside the original ROI the observation is dropped. Otherwise, if the requested ROI is not completely contained in the original ROI the resulting ROI has a radius reduced such that it is completely contained within the original one. This sometimes produces unexpected results. Note that the internal logic of the tools, notably for unbinned likelihood analysis, requires to have circular ROIs.</p> <p>After discussion with Jürgen we propose to change this as follows:</p> <ul style="list-style-type: none">• make usepnt True by default, so that the user normally trims the tail of the FoV using the rad parameter• if the requested ROI center and original ROI are the same keep the smaller radius between original ROI and requested one• if the centers do not coincide and the requested ROI is not within the original ROI throw an error• add a hidden parameter forcesel, that enables the user to bypass the exception above; in this case the events will be kept if they lie in the intersection between original and requested ROI, the ROI in the file will be left as the original one, and the log file will contain a warning saying that the files may produce wrong results if passed to other ctools/cscripts.			

History

#1 - 06/15/2018 10:32 AM - Tibaldo Luigi

- Status changed from New to In Progress

- % Done changed from 0 to 40

Coded. Need to test and update documentation.

#2 - 06/15/2018 02:58 PM - Tibaldo Luigi

- % Done changed from 40 to 80

Testing done, and ctools test unit modified according to changes.
Need to work on documentation.

#3 - 06/15/2018 03:15 PM - Tibaldo Luigi

- Status changed from In Progress to Pull request

- % Done changed from 80 to 100

Updated reference manual and quickstart tutorial on ctselect.
Ready for integration from my side.

#4 - 06/15/2018 04:48 PM - Knödseder Jürgen

- Status changed from Pull request to Closed

Code merged into devel.