

Task #5: Sanity check for non-zero values of *smsep* and *txpl*.

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These edits have come from combing through the 2006 - present dataset of rawacf and trying to determine why certain files would not process into fitacf and/or fitex files. In the process of looking more indepth at some files, it was found that some parts of the make\_fitex2 and the make\_fit routines should be modified as they made assumptions that are not always true.

First, the make\_fitex2 code assumed that the largest lag possible is 100. However, whether by errors in the lag table or by design, it was found that lags of larger than 100 were possible. So, in order to keep a file from not processing because of one large lag, a continue was added so that this lag would be skipped.

Second, it was found that the badlags as well as the badlags\_s (or stereo badlags) used several loops which iterated on the value of smsep without a simple check to see if smsep was something other than zero. It was found in some rare occasions, more than likely due to errors, that smsep = 0 and so the loops would never end. If it is the case that smsep=0, then the txpl value is checked as the txpl is usually the same as smsep. If neither smsep or txpl is a good value, the routine exits or returns after printing a warning message. Otherwise, if txpl can be used in place of smsep, a warning message is printed to note this to the user/computer.