Checking code

This note contains the status of checking code in C:\Users\are\OneDrive\Documents\GitHub\OpticalTweezers\_GitHub

I am testing with late rips and maximum rips 3 in most cases. The tests are so far limited to checking for program errors, not accuracy of results.

Many of the functions for analysing experiments needed changes to handle multiple and late rips.

The table on the next page shows the status of the filles

Note that this version assumes that the data (for a given set of temperatures and pulling speed) can be modelled by one set of parameters (i.e. no clusters). Currently I am testing against Berkeley data (C:\Users\are\Berkeley).

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| --- | --- |
| **File name** | **Status** |
| analyse\_experiment | Corrected |
| analyse\_many | Tested |
| Bell\_unfold\_probability.m | Tested indirectly |
| Bellclusters.m | Delete? |
| create\_table | Corrected |
| Crooks\_work.m | Tested indirectly |
| Dudko\_unfold\_probability.m | Tested indirectly |
| T\_from\_COM.m | Tested indirectly |
| analyse\_experiment.m | Corrected |
| analyse\_fiber.m | Corrected |
| analyse\_many.m | Corrected |
| clusters.m | Deleted |
| collect\_tables.m | Tested |
| create\_table.m | Corrected |
| datafolder.m | Tested indirectly |
| datafolder\_template.m | Corrected |
| fit\_Bell\_refold.m | Tested indirectly |
| fit\_Bell\_unfold.m | Tested indirectly |
| fit\_Dudko\_unfold.m | Tested indirectly |
| frequency\_split.m | Deleted |
| laterip\_trace.m | Tested indirectly |
| mark\_cycle.m | Tested |
| model\_fitting\_demo.m | Deleted |
| movingslope.m | Tested indirectly |
| params.m | Tested |
| peaksandvalleys.m | Tested indirectly |
| plot\_trace.m | Obsolete(?) |
| probdens.m | Tested indirectly |
| read\_experiment\_file.m | Tested indirectly |
| remove\_time\_loops.m | Tested indirectly |
| rip\_finder.m | Corrected |
| rip\_finder\_fit.m | Tested indirectly |
| rle.m | Tested indirectly |
| shorten\_filename.m | Tested |
| Singlerip\_finder.m | Deleted |
| Singlerip\_finder\_fit.m | Deleted |
| sortfibers.m | Tested indirectly |
| table2tracestruct.m | Robustified |
| textfile\_names.m | Tested |
| valid\_trace\_part.m | Tested indirectly |
| wlc.m | Tested indirectly |
| wlc\_inverse.m | Tested indirectly |

RipAnalysis app (not tested yet)