



Differences, known bugs, etc. in the **64-bit LabHelper** (12/17/2019)

OS versions: the 64-bit LabHelper (the 'Cocoa' version) has been tested on macOS 10.11 ('El Capitan'), 10.13 ('High Sierra') and 10.14 ('Mojave'). I don't have a machine with 10.12 ('Sierra') but presumably it should work. Function with earlier macOS versions is possible but not tested. Preliminary testing indicates it works with 10.15 ('Catalina'), but only with the Sable UI3 (for other A-D devices, the software drivers for the required USB ↔ serial converter (TrippLite USA-19HS; <https://www.tripplite.com/support/USA19HS>) are not yet 64-bit compatible).

TESTED WITH THESE A-D CONVERTERS:

- **DataTaker DT500 and DT800.** Should work with other versions of these units.
 - **ADAM 4019, with 4050 and 4017.**
 - **Sable UI2.** Should work with the **UI3**, but sample rate may not exceed ~ 60 Hz.
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NEW (compared to 32-bit versions):

- When you change the plot colors, the '**Screen colors**' example window is continuously updated as you work with the color selection panel.
- '**tool tips**': These are small 'popup' windows that open when the cursor is over certain buttons. They show information about the button in question. Always operational for the toolbar buttons in the Data Acquisition (DAQ) window.
- Many operations run faster than in the older 32-bit versions (or seem to).

NOT INCLUDED:

- **triggering** has not been implemented yet, and probably won't be unless it's clearly needed by users.
- **slope trends** has not been implemented yet, and probably won't be unless it's clearly needed by users.
- **progress bars** (difficult to implement, and in the older 32-bit versions they were only really of use for very large data files). These formerly were shown when files were opened and during certain lengthy conversion and analysis procedures.
- **output** of recorded data in **very old and obsolete data file formats** (Warthog text, etc.), which aren't of much use on modern Macs.
- **direct printing of window graphics** (such as the 'screen print' option). LabHelper will make either a .pdf or a .png of the window image, but won't send it directly to a printer (it's easy to do that from the .pdf or .png). You can make either .pdf or .png the default from the Preferences menu.

DIFFERENT:

- There are some differences in the order in which certain windows appear in multi-window processes (such as naming backup files, oscilloscope files and associated file comments at the start of 'scope plus chart' acquisition).
- You might see small differences in otherwise identical numerical calculations in the Cocoa and earlier versions, presumably because of the 64- vs. 32-bit processing.
- Window prints (for example, setup file parameters) are initially in .png format by default, not pdfs. You can change this in the 'Preferences' window, or you can easily change a .png image file into a pdf using Preview or another image editor). Unlike with previous versions, you cannot send a screen print directly to a printer from within LabHelper.
- The '**Plot Height**' procedure is somewhat different from older versions.
- Help options are accessed through round question-mark (?) buttons.

NOT THOROUGHLY TESTED:

- **breakpoint transformations** (these seem to work as expected, but I have not had the time or opportunity to exhaustively test them with 'real' data)
- **custom transformations** (same as above)
- **2-channel X-Y plotting** (same as above)
- **extra zero links** for switched external devices (same as above)
- **audible event timing** (same as above)
- **analog output** and **feedback control** (same as above)