Mathematica Link for LabVIEW – Application Note

Compatibility with LabVIEW 7.0 and Mathematica 5

COMPATIBILITY

BetterVIEW has tested "Mathematica Link for LabVIEW" and verifies full compatibility with Mathematica 4.x/5 and LabVIEW 6.x/7.0 . All of the demo VIs and Notebook examples have passed the compatibility tests for all shipping versions.

CHANGES TO MATHEMATICA 5 DEFAULT LINK PROTOCOL

In Mathematica 5, the default link MathLink protocol has been changed from "FileMap" (-- the previous default protocol) to "SharedMemory". Since the current shipping version of Mathematica Link for LabVIEW defaults to "FileMap", you must explicitly specify the LinkProtocol parameter when opening a link from your own Mathematica 5 code.

SUGGESTED DOCUMENTATION UPDATES

The new default link protocol has no impact on any of the VIs or Notebook examples included in the package, but it does impact two of the text examples in the User's Guide as follows:

Page 99 - top of the page:

The example text:

link = LinkOpen["lkds", LinkMode -> Listen]

becomes:

link = LinkOpen["lkds", LinkProtocol->"FileMap", LinkMode -> Listen]

Similarly, on the bottom of **page 103**, the example text:

link = LinkOpen["lkdc", LinkMode -> Listen]

becomes:

link = LinkOpen["lkds", LinkProtocol->"FileMap", LinkMode -> Listen]

Notice that in both cases, the **LinkProtocol** parameter has been explicitly specified. Please make a note of this in your copy of the Link User Guide to avoid any confusion in the future.

Again, BetterVIEW would like to stress that this change applies to Mathematica 5 only, and has no impact on any of the examples or built-in functions. You only need to be aware of this if you are linking to MathLink-enabled custom VIs directly from your own Mathematica code. For more information, refer to the section entitled "Basic MathLink Programming" beginning on page 97 or the User's Guide.