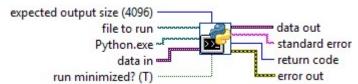
## PythonWrapper.vi

Allows for the passing of non-string data types to and from Python scripts.



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**data in** Connect to **data in** a variant containing the argument(s) that will be passed to python. Python will receive a replica data structure of whatever is inside the variant passed to **data in**.

Note that the following conversions will take place:

[x]-bit integernumpy.int[x]Unsigned [x]-bit integernumpy.uint[x]Single-Precision Floating-Point Numbernumpy.float32Double-Precision Floating-Point Numbernumpy.floa64Single-Precision Complexnumpy.complex64Double-Precision Complexnumpy.complex128

Enumerated [x]-bit Integer numpy.uint[x]
All Physical Quantities their non-physical equivalent

Boolean bool String str Path str

Array numpy.ndarray

Cluster

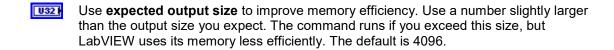
Variant LabviewPasser.variant

Note that the following types are not yet supported:

All Extended-Precision types

Picture Waveform Refnum

All Fixed-Point types



If **run minimized?** is TRUE, the VI minimizes the run of your executable program. The default is TRUE.

**Python.exe** stores the file path to the file Python.exe located on your computer. If the location of this file is in your PC's environment path variable, entering "Python" in this field (the default value) is sufficient.

file to run is the location of the python script that the PythonWrapper.vi will call.

return code indicates the exit code returned by python.

error out contains error information. This output provides standard error out functionality.

**status** is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**DI32** code is the error or warning code.

**source** describes the origin of the error or warning and is, in most cases, the name of the node that produced the error or warning.

**standard error** returns runtime errors from inside the python script you called.

data out is a variant containing the data structure returned by the python script specified in file to run. To access the data, use the "Variant to Data" VI.

Note that all python "int" types are converted to 32-bit Integers, python "float" types to Double-Precision Floating-Point Numbers, and python "complex" types to Double-Precision Complex Floating-Point Numbers.

"PythonWrapper.vi History" Current Revision: 28

rev. 28 Tue, Jul 17, 2018 3:08:41 PM Joel

Version: 1.0

Runs on: LabVIEW 2016

Version Release Date: 11 July, 2018

Author: Joel Herman

Designed for use with 'LabviewPasser.py', version 1.0 (For use with Python 2.6-3.7)