

Bloomy VI Corner: Verify Path Exists.vi

Verify Path Exists.vi, developed by Bloomy Controls project engineer and Certified LabVIEW Architect Keith Brainard, creates a file path if one does not exist. Many LabVIEW applications log data to files. When moving an application from a development computer to a separate computer for application deployment, the file path where data is to be logged may not exist. Alternatively, a directory structure on a network server may change without warning. By placing this VI in data logging VIs, the developer can be assured that the path to be written to will exist. Simply wire the path, without file name, to the **directory path** input of this VI and any necessary folders will be created as needed when the VI executes. The final path that is created is output on **verified directory path** for use downstream in the calling VI.

First, the VI gathers a list of the folders in the **directory path** that are not found in the file system. As soon as the **List Directory** function does not return Error 7 (File Not Found), the input path specified to that function is found. If this happens immediately on iteration zero, the input **directory path** is already valid. The True case will execute. If it takes more than one iteration before a valid directory is found, the False case executes, and **directory path** builds up one folder at a time starting from the last folder found.

For example, if the input **directory path** is *C:\Program Files\Bloomy Controls\LabVIEW Data*, and the computer only had *C:\Program Files* on it, this VI would first find that *LabVIEW Data* folder didn't exist, then it would find that *Bloomy Controls* folder didn't exist, then it would find that *Program Files* folder did exist. Then it would start from the last folder that didn't exist and create the nonexistent folders: first creating *Bloomy Controls*, then *LabVIEW Data*. ➔

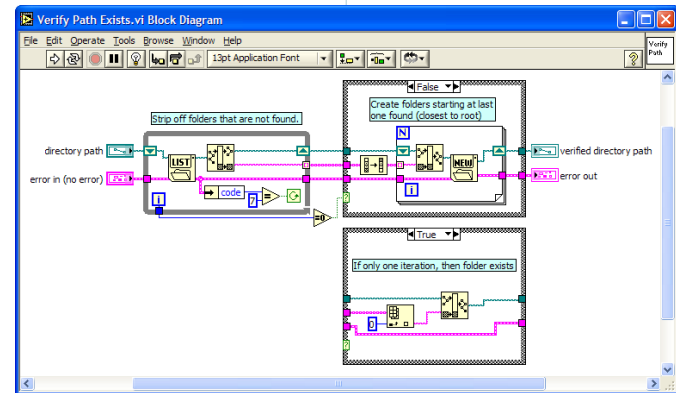
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