

**pathjoin()** — File path manipulation

Description	Syntax	Remarks and examples	Conformability
Diagnostics	Also see		

## Description

`pathjoin(path1, path2)` forms, logically speaking, *path1/path2*, but does so in the appropriate style. For instance, *path1* might be a URL and *path2* a Windows *dirname\filename*, and the two paths will, even so, be joined correctly. All issues of whether *path1* ends with a directory separator, *path2* begins with one, etc., are handled automatically.

`pathsplit(path, path1, path2)` performs the inverse operation, removing the last element of the path (which is typically a filename) and storing it in *path2* and storing the rest in *path1*.

`pathbasename(path)` returns the last element of *path*.

`pathsuffix(path)` returns the file suffix, with leading dot, if there is one, and returns "" otherwise. For instance, `pathsuffix("this\that.ado")` returns ".ado".

`pathrmsuffix(path)` returns *path* with the suffix removed, if there was one. For instance, `pathrmsuffix("this\that.ado")` returns "this\that".

`pathisurl(path)` returns 1 if *path* is a URL and 0 otherwise.

`pathisabs(path)` returns 1 if *path* is absolute and 0 if relative. `c:\this` is an absolute path. `this\that` is a relative path. URLs are considered to be absolute.

`pathasciisuffix(path)` and `pathstatastatusuffix(path)` are more for StataCorp use than anything else. `pathasciisuffix()` returns 1 if the file is known to be text, based on its file suffix. StataCorp uses this function in Stata's `net` command to decide whether end-of-line characters, which differ across operating systems, should be modified during downloads. `pathstatastatusuffix()` is the function used by Stata's `net` and `update` commands to decide whether a file belongs in the official directories. `pathstatastatusuffix("example.ado")` is true, but `pathstatastatusuffix("example.do")` is false because do-files do not go in system directories.

`pathlist(dirlist)` returns a row vector, each element of which contains an element of a semicolon-separated path list *dirlist*. For instance, `pathlist("a;b;c")` returns ("a", "b", "c").

`pathlist()` without arguments returns `pathlist(c("adopath"))`, the broken-out elements of the official Stata ado-path.

`pathsubsysdir(pathlist)` returns *pathlist* with any elements that are Stata system directories' short-hands, such as PLUS, PERSONAL, substituted with the actual directory names. For instance, the right way to obtain the official directories over which Stata searches for files is `pathsubsysdir(pathlist())`.

`pathsearchlist(fn)` returns a row vector. The elements are full paths/filenames specifying all the locations, in order, where Stata would look for *fn* along the official Stata ado-path.

`pathresolve(basepath, path)` returns a resolved path of *path* against *basepath*. For example, `pathresolve("c:/test", "../test1")` returns "c:/test1".

`pathgetparent(path)` returns the parent path of *path*. For example, `pathgetparent("c:/test/test.do")` returns "c:/test". Neither `c:/test` nor `c:/test/test.do` need exist.

## Syntax

<i>string scalar</i>	<code>pathjoin(<i>string scalar path1</i>, <i>string scalar path2</i>)</code>
<i>void</i>	<code>pathsplit(<i>string scalar path</i>, <i>path1</i>, <i>path2</i>)</code>
<i>string scalar</i>	<code>pathbasename(<i>string scalar path</i>)</code>
<i>string scalar</i>	<code>pathsuffix(<i>string scalar path</i>)</code>
<i>string scalar</i>	<code>pathrmsuffix(<i>string scalar path</i>)</code>
<i>real scalar</i>	<code>pathisurl(<i>string scalar path</i>)</code>
<i>real scalar</i>	<code>pathisabs(<i>string scalar path</i>)</code>
<i>real scalar</i>	<code>pathasciisuffix(<i>string scalar path</i>)</code>
<i>real scalar</i>	<code>pathstatasuffix(<i>string scalar path</i>)</code>
<i>string rowvector</i>	<code>pathlist(<i>string scalar dirlist</i>)</code>
<i>string rowvector</i>	<code>pathlist()</code>
<i>string rowvector</i>	<code>pathsubsysdir(<i>string rowvector pathlist</i>)</code>
<i>string rowvector</i>	<code>pathsearchlist(<i>string scalar fn</i>)</code>
<i>string scalar</i>	<code>pathresolve(<i>string scalar basepath</i>, <i>path</i>)</code>
<i>string scalar</i>	<code>pathgetparent(<i>string scalar path</i>)</code>

## Remarks and examples

[stata.com](https://www.stata.com)

Using these functions, you are more likely to produce code that works correctly regardless of operating system.

`pathremove()` returns an error code if you do not have the necessary permission to remove the directory or its contents.

`pathresolve(basepath, path)` simply returns *path* if it is an absolute path.

`pathresolve(basepath, path)`'s behavior is undefined if *basepath* has no root element, for example, `../`.

## Conformability

`pathjoin(path1, path2):`

*path1:* 1 × 1  
*path2:* 1 × 1  
*result:* 1 × 1

`pathsplit(path, path1, path2):`

*input:*  
*path:* 1 × 1  
*output:*  
*path1:* 1 × 1  
*path2:* 1 × 1

`pathbasename(path), pathsuffix(path), pathrmsuffix(path):`

*path:* 1 × 1  
*result:* 1 × 1

`pathisurl(path), pathisabs(path), pathasciisuffix(path), pathstataffix(path):`

*path:* 1 × 1  
*result:* 1 × 1

`pathlist(dirlist):`

*dirlist:* 1 × 1 (optional)  
*result:* 1 × *k*

`pathsbsysdir(pathlist):`

*pathlist:* 1 × *k*  
*result:* 1 × *k*

`pathsearchlist(fn):`

*fn:* 1 × 1  
*result:* 1 × *k*

`pathresolve(basepath, path):`

*basepath:* 1 × 1  
*path:* 1 × 1  
*result:* 1 × 1

`pathgetparent(path):`

*path:* 1 × 1  
*result:* 1 × 1

## Diagnostics

All routines abort with error if the path is too long for the operating system.

## Also see

[M-4] **IO** — I/O functions