<div style="border:1px solid black; padding:10px;">

dir( ) — File list

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Description

dir(*dirname*, *filetype*, *pattern*) returns a column vector containing the names of the files in *dir* that match *pattern*.

dir(*dirname*, *filetype*, *pattern*, *prefix*) does the same thing but allows you to specify whether you want a simple list of files (*prefix* = 0) or a list of filenames prefixed with *dirname* (*prefix* ≠ 0). dir(*dirname*, *filetype*, *pattern*) is equivalent to dir(*dirname*, *filetype*, *pattern*, 0).

pattern is interpreted by [M-5] **strmatch( )**.

Syntax

> *string colvector* dir(*dirname*, *filetype*, *pattern*)

> *string colvector* dir(*dirname*, *filetype*, *pattern*, *prefix*)

where

dirname:	*string scalar*	containing directory name
filetype:	*string scalar*	containing "files", "dirs", or "other"
pattern:	*string scalar*	containing match pattern
prefix:	*real scalar*	containing 0 or 1

Remarks and examples

Examples:

dir(".", "dirs", "*")
    returns a list of all directories in the current directory.

dir(".", "files", "*")
    returns a list of all regular files in the current directory.

dir(".", "files", "*.sthlp")
    returns a list of all *.sthlp files found in the current directory.

Conformability

dir(*dirname*, *filetype*, *pattern*, *prefix*):

dirname:	1×1	
filetype:	1×1	
pattern:	1×1	
prefix:	1×1	(optional)
result:	$k \times 1$,	k number of files matching pattern

Diagnostics

dir(*dirname*, *filetype*, *pattern*, *prefix*) returns J(0,1,"") if

1. no files matching *pattern* are found,

2. directory *dirname* does not exist, or

3. *filetype* is misspecified (is not equal to "files", "dirs", or "others").

dirname may be specified with or without the directory separator on the end.

dirname = "" is interpreted the same as *dirname* = "."; the current directory is searched.

Also see

[M-4] **IO** — I/O functions