

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

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