
Subject: Which routine (was: Re: Seeing Source w/ Debugger)

Posted by [robijn](#) on Fri, 24 Jun 1994 13:04:41 GMT

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```
;+
; NAME:
;   WHICH
;
;
; PURPOSE:
;   Searches the !PATH for a given file.
;
;
; CATEGORY:
;   Programming.
;
; CALLING SEQUENCE:
;
;   Result = WHICH (FileName)
;
;
; INPUTS:
;   FileName   The name of the file to look for. The '.pro'
;              extension can be omitted.
;
;
; KEYWORD PARAMETERS:
;   PATH       A string containing an alternative path to search.
;              If this keyword is omitted, !PATH is used.
;
;
; OUTPUTS:
;   The function returns the path to the file name. If the file is
;   not found, an empty string "" is returned.
;
;
; COMMON BLOCKS:
;   None.
;
;
; SIDE EFFECTS:
;   None.
;
;
; RESTRICTIONS:
;   Should work on DOS and Unix platforms.
;
;
; MODIFICATION HISTORY:
;
;   Jun 13, 1994 (Frank Robijn, Robijn@Strw.LeidenUniv.NL)
;   Written.
;-
FUNCTION Which, File, PATH=Path
```

```
if (NOT Keyword_Set (File)) then return, ""
if (NOT Keyword_Set (Path)) then Path = !PATH
```

```

case !VERSION.OS of
  'windows': begin SepDir = '\' & SepPath = ';' & end
  else:      begin SepDir = '/' & SepPath = ':' & end
endcase

SearchDir = ['.']
Pos = -1
repeat begin
  NewPos = StrPos (Path, SepPath, Pos + 1)
  if (NewPos LT 0) then Len = StrLen (Path) else Len = NewPos-Pos-1
  SearchDir = [Temporary (SearchDir), StrMid (Path, Pos+1, Len)]
  Pos = NewPos
endrep until (NewPos LT 0)

FileName = ""
On_IOError, Continue
Get_LUn, Unit
for i = 0, N_Elements (SearchDir) - 1 do begin
  OpenR, Unit, SearchDir(i) + SepDir + File
  Close, Unit
  FileName = SearchDir(i) + SepDir + File
  GoTo, FileFound
Continue:
endfor

On_IOError, GoOn
Get_LUn, Unit
for i = 0, N_Elements (SearchDir) - 1 do begin
  OpenR, Unit, SearchDir(i) + SepDir + File + '.pro'
  Close, Unit
  FileName = SearchDir(i) + SepDir + File + '.pro'
  GoTo, FileFound
GoOn:
endfor

FileFound:
On_IOError, NULL
return, FileName
END
--

```

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