Subject: Re: relative path from one absolute path to another?
Posted by JD Smith on Tue, 08 Aug 2006 18:39:50 GMT

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On Tue, 08 Aug 2006 07:38:06 -0700, greg michael wrote:

>
> I'd be surprised if you can do it without programming, but it shouldn't
> be hard. Split the path using strsplit() and path_sep(), count how many
> first elements are the same, add a chain of '..'+path_sep() to equal
> the remaining elements in your from-path, and tack on the remaining
> elements of the to-path.
>
> regards,
> Greg
>
>
>
> born.in.sssr@gmail.com wrote:
>> Hi all,
>> is there an easy way (without string scripting) to get the relative
>> path from one absolute path to another (platform independent:
>> unix+win)?
>> In the kind of:
>> rel_path = get_rel_path(from_path, to_path)
>> Thanks, Maxim

I actually had to solve this recently. I don't know if Windows likes
it. Do Windows paths contain the drive letter? If so, it will
probably be unhappy, since even FILE_DIRNAME cannot remove those
obnoxious C:'s.

JD

```
;+
; NAME:
;
;   MAKE_FILENAME_RELATIVE
;
; PURPOSE:
;
;   Given a filename and a path, make the former relative to the latter.
;
; CATEGORY:
;
;   Filenames
;
; CALLING SEQUENCE:
```

```
;
;   new=make_filename_relative(file,root)
;
; INPUTS:
;
;   file: The absolute filename to turn into a relative filename.
;
;   root: The path of the root directory from which to make a relative
;      path to file.
;
; OUTPUTS:
;
;   new: The new relative filename.
;
;
; MODIFICATION HISTORY:
;
;   2006-07-05 (JDS): Written
;
;-
;   $Id: make_filename_relative.pro,v 1.3 2006/07/06 00:51:06 jdsmith Exp $
 ;############################################################
###################
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;
 ;############################################################
###################

function make_filename_relative,path,root_in
  up=0L
```

```
sep=path_sep()
if strmid(path,0,1) eq '.' then return,path
root=root_in
while root ne sep do begin
  match=path
  while match ne sep do begin
    match=file_dirname(match)
    if file_same(match,root) then begin
      ;; replace match by ./ or ../
      return,(up eq 0L?'.':strjoin(replicate(path_sep(/PARENT),up),sep))+ $
          strmid(path,strlen(match))
    endif
  endwhile
  root=file_dirname(root)
  up++
endwhile
return, '.'+path
end
```