Subject: Re: Is and PV-WAVE problem on HP-UX 10.20 Posted by stroyan on Wed, 27 Jan 1999 08:00:00 GMT

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Franz Dollinger (Franz.Dollinger@mchp.siemens.de) wrote:

|after a patch bundle (10.20.40) had been installed to our |HP 9000/735's on HP-UX 10.20, I run into problems |with long command lines.

The problems didn't occur before the installation.

..

Any idea on how to overcome that limitation?

Recent patch bundles on 10.20 include the ability to have very long argument lists. The feature is controlled by a configurable kernel parameter, "large_ncargs_enabled". If you have the right patches installed you can set that parameter to 1 in sam under the "Kernel Configuration" -> "Kernel Parameters" section.

--

Mike Stroyan, mike_stroyan@fc.hp.com

Subject: Re: Is and PV-WAVE problem on HP-UX 10.20 Posted by thompson on Wed, 27 Jan 1999 08:00:00 GMT

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Franz.Dollinger@mchp.siemens.de (Franz Dollinger) writes:

- > Hi,
- > after a patch bundle (10.20.40) had been installed to our
- > HP 9000/735's on HP-UX 10.20, I run into problems
- > with long command lines.
- > The problems didn't occur before the installation.
- > calling any program with a long list of files
- > e.g.:
- > Is vvv *
- > where vvv_* stands for more than 1000 files results
- < ir
- > arg list too long
- > Same behaviour for the findfile routine of PV-WAVE.
- > It got the same limitation since the installation
- > of the patch bundle.
- > Any idea on how to overcome that limitation?

- > thanks
- > bve
- > Franz

This is a limitation imposed by the Unix shell. The following routine uses find instead of Is to overcome this.

William Thompson

Project : SOHO - CDS

: FIND_FILE() Name

Purpose : Fixing builtin FINDFILE() problem

Explanation: The builtin FINDFILE() function has problems on some unixes whenever *a lot* of files are matching the file specification. This is due to the fact that filename expansion is done by the shell *before* interpreting a command. Too many files cause too long commands, which are not accepted. This causes FINDFILE() to return an empty list of candidates.

> FIND FILE tries the builtin function first, and whenever the returned list of files is empty, it tries to recheck through spawning a "find" command.

Since FINDFILE doesn't discriminate between directories, links and files, this function will not do this either.

Under unix, however, calls like FINDFILE("*") returns the unfiltered output of the shell commmand "Is *", including colon-terminated lines for each subdirectory matching the specification and empty lines separating each subdirectory listing. Such silly effects are not implemented in the "find" version. Be warned, however, that these effects are present when the builtin function does not "fail" due to a too long file list.

It is possible (under unix) to use the "find" method as default by setting the keyword /USEFIND (no effect under other operating systems).

; Use : files = find_file(file_specification)

Inputs : file_specification : A scalar string used to find

files. See FINDFILE()

Opt. Inputs: None.

Outputs : Returns a list of files or a blank string if none found.

Opt. Outputs:

Keywords : COUNT : Returns the number of files

USEFIND : Always use a spawned "find" command under unix.

No effect under other operating systems.

NODOT: Apply a filter to the results from find to prevent finding the directory itself in a large file expansion. eg 'find_file,"foo/*"' returns ("foo/","foo/a",...) but 'find_file,"foo/*",/nodot' returns ("foo/a","foo/b",...) without the leading "foo/". This behavior is closer to the behavior of findfile() without the long-directory braindamage. It is *not* the default so as not to break heritage

code that uses find_file().

Calls: BREAD_FILE, FINDFILE, SPAWN

Common: None

Restrictions: As for FINDFILE

Side effects: None, hopefully

Category: Utilities, Operating_system

Prev. Hist.: Lots of problems with FINDFILE is hopefully history.

Written: S.V.H. Haugan, UiO, 12 April 1996

Modified: Version 2, SVHH, 10 June 1996

Moved the CD, curr_path command to avoid

returns without resetting path. Version 3, SVHH, 26 June 1996

Took away the -type f argument to find, added

/USEFIND keyword.

: Added /nodot keyword C. DeForest 9-August-1998

```
; Version : 3, 26 June 1996
FUNCTION find file,file_specification,count=count,usefind=usefind,nod ot=nodot
 count = 0
 use_find = KEYWORD_SET(usefind) AND os_family() EQ 'unix'
 IF NOT use_find AND N_PARAMS() EQ 0 THEN BEGIN
   result = findfile(count = count)
   RETURN.result
                          ; Unix doesn't have problems with this
 END
 IF N_PARAMS() EQ 0 THEN file_specification = '*'
 IF file_specification EQ " THEN file_specification = '*'
 IF NOT use_find THEN result = findfile(file_specification,count=count) $
 ELSE count = 0
 :: Check for problems
 IF count EQ 0 AND os_family() EQ 'unix' THEN BEGIN
  file = file specification
  break_file,file,disk,dir,filnam,ext
   ;; Check if directory exists
  IF dir NE "THEN BEGIN
    IF (findfile(dir))(0) eq "THEN RETURN,"
   END
   ;; Temporary switch to that directory
  IF dir NE " THEN cd,dir,current=curr path
  IF filnam+ext EQ " THEN filnam = '*'
   ;; Find all matching
  spn = ["find",".","-name",filnam+ext,"-print"]
  spawn,spn,result,/noshell
   ;; Switch back to original directory
  IF dir NE " THEN cd,curr_path
  IF result(0) EQ " THEN RETURN,"; None matching, return
   ;; Get rid of current-directory match, if necessary
  if keyword_set(nodot) and result(0) eq '.' then $
result = result(1:n elements(result)-1)
```

```
;; Chop off './'
result = STRMID(result,2,1000)

;; Chip out subdirectories (for some reason, the -prune option doesn't
;; work properly, so I have dropped using it).

ix = WHERE(STRPOS(result,'/') EQ -1,count)
IF count EQ 0 THEN RETURN,"

;; Put back the specified (not full) path
result = dir + result(ix)
END

RETURN,result

END

;; End of 'findfile.pro'.
```

Subject: Re: Is and PV-WAVE problem on HP-UX 10.20 Posted by R.Bauer on Wed, 27 Jan 1999 08:00:00 GMT View Forum Message <> Reply to Message

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> Same behaviour for the findfile routine of PV-WAVE.
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> of the patch bundle.
> Any idea on how to overcome that limitation?
```

- > thanks >
- > bye
- > Franz >
- > --
- > Standard->disclaimer
- > (You didn't really think the opinions expressed herein
- > are in any way related to my employer?)

The only way i know is to use findfile is result=findfile().

This works!

You are able to use strpos to do the selection you want.

R.Bauer