
Subject: Re: SPAWN EXIT_STATUS not the same as shell. Ideas?
Posted by [Paul Van Delst\[1\]](#) on Fri, 04 Mar 2016 20:14:11 GMT
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Just followup, this is my original code:

```
; Run LBLRTM
; ...Spawn the executable
SPAWN, 'lblrtm', stdout, stderr, EXIT_STATUS = exit_stat
; ...Check the result via the exit status
run_error = ( exit_stat NE 0 )
IF ( run_error ) THEN BEGIN
    FOREACH s, stderr DO MESSAGE, s, /CONTINUE
    MESSAGE, 'Error running LBLRTM for '+FILE_BASENAME(GT5_file) + $
        '. Trying again...', /INFORMATIONAL
ENDIF
```

I added the following directly after the SPAWN:

```
; ...Check the result via the stderr output
potential_run_error = (N_ELEMENTS(stderr) GT 1)
IF ( potential_run_error ) THEN BEGIN
    lc_stderr = STRLOWCASE(stderr)
    ; ...Look for common indications of an actual error
    error_string = ['sigseg', 'segmentation fault']
    FOR i = 0, N_ELEMENTS(error_string)-1 DO BEGIN
        error_idx = WHERE(STRPOS(lc_stderr, error_string[i]) NE -1, $
            error_count)
        IF ( error_count GT 0 ) THEN BEGIN
            exit_stat = -1
            BREAK
        ENDIF
    ENDFOR
ENDIF
```

Anyone have a smarter method?

This gets around the problem I'm having but it would sure be nice if EXIT_STATUS worked properly.

cheers,

paulv

On 03/04/16 14:43, Paul van Delst wrote:
> Hello,

```

>
> When I run a command in the shell I get the following result with a
> non-zero exit status:
>
> -----%<-----
> $ lblrtm
>
> Program received signal SIGSEGV: Segmentation fault - invalid memory
> reference.
>
> Backtrace for this error:
> #0 0x7F1874C5AB07
> #1 0x7F1874C5B11E
> #2 0x3000C3269F
> #3 0x45C2E5 in emit_
> #4 0x473F4A in xmerge_
> #5 0x408F96 in xlayer_
> #6 0x429333 in MAIN__ at lblrtm.f90:0
> Segmentation fault (core dumped)
>
> $ echo $?
> 139
> -----%<-----
>
> When I run the same command in my IDL script via spawn, I see the
> following:
>
> -----%<-----
> IDL> SPAWN, 'lblrtm', stdout, stderr, EXIT_STATUS = exit_stat
> IDL> foreach s, stderr do print, s
>
> Program received signal SIGSEGV: Segmentation fault - invalid memory
> reference.
>
> Backtrace for this error:
> #0 0x7F75D828DB07
> #1 0x7F75D828E11E
> #2 0x3000C3269F
> #3 0x45C2E5 in emit_
> #4 0x473F4A in xmerge_
> #5 0x408F96 in xlayer_
> #6 0x429333 in MAIN__ at lblrtm.f90:0
>
> IDL> print, exit_stat
>      0
> -----%<-----
>
> Umm...anyone know why my IDL EXIT_STATUS (0) is different from my shell

```

> exit status (139)?
>
> Do I need an extra switch in the SPAWN command or...?
>
> Thanks for any info.
>
> cheers,
>
> paulv
>
>
> p.s.
> IDL> print, !version
> { x86_64 linux unix linux 8.3 Nov 15 2013 64 64}
