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Subject: SPAWN exit status different from shell exit status.  
Posted by [Paul Van Delst\[1\]](#) on Mon, 30 Jun 2014 14:04:52 GMT  
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Hello,

I'm trying to run a compiled executable within IDL.

When I run the exe in a regular shell I get the following:

```
$ myexe
```

Program received signal SIGSEGV: Segmentation fault - invalid memory reference.

Backtrace for this error:

```
#0 0x7FD97E7ADA77
#1 0x7FD97E7AE07E
#2 0x3000C3299F
#3 0x45EBBB in sub1_
#4 0x47688D in sub2_
#5 0x409A9F in sub3_
#6 0x42BABA in MAIN__ at myprog.f90:0
Segmentation fault (core dumped)
```

If I inspect the exit value I see:

```
$ echo $?
139
```

Now, if I do the same thing inside an IDL SPAWN command I get the following:

```
IDL> SPAWN, 'myexe', stdout, stderr, EXIT_STATUS = exit_stat
```

```
IDL> print, exit_stat
0
```

```
IDL> help, stderr
STDERR      STRING  = Array[11]
```

```
IDL> print, stderr, format='(a)'
```

Program received signal SIGSEGV: Segmentation fault - invalid memory reference.

Backtrace for this error:

```
#0 0x7F39A545DA77
#1 0x7F39A545E07E
#2 0x3000C3299F
#3 0x45EBBB in sub1_
#4 0x47688D in sub2_
#5 0x409A9F in sub3_
#6 0x42BABA in MAIN__ at myprog.f90:0
```

So it's still failing but the exit\_status is always 0 (i.e. successful)

I've tried the command with /SH and /NOSHELL and get the same result.

Does anyone have any idea why SPAWN is not setting the EXIT\_STATUS correctly?

cheers,

paulv

p.s.

```
IDL> print, !VERSION
{ x86_64 linux unix linux 8.3 Nov 15 2013    64    64}
```

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Subject: Re: SPAWN exit status different from shell exit status.

Posted by [lecacheux.alain](#) on Mon, 30 Jun 2014 16:31:13 GMT

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On Monday, June 30, 2014 4:04:52 PM UTC+2, Paul van Delst wrote:

```
> Hello,
>
>
>
> I'm trying to run a compiled executable within IDL.
```

```
>
>
>
> When I run the exe in a regular shell I get the following:
```

```
>
>
>
> $ myexe
>
>
>
> Program received signal SIGSEGV: Segmentation fault - invalid memory
>
```

```
> reference.  
>  
>  
>  
>  
> Backtrace for this error:  
>  
> #0 0x7FD97E7ADA77  
>  
> #1 0x7FD97E7AE07E  
>  
> #2 0x3000C3299F  
>  
> #3 0x45EBBB in sub1_  
>  
> #4 0x47688D in sub2_  
>  
> #5 0x409A9F in sub3_  
>  
> #6 0x42BABA in MAIN__ at myprog.f90:0  
>  
> Segmentation fault (core dumped)  
>  
>  
>  
>  
>  
>  
> If I inspect the exit value I see:  
>  
>  
>  
>  
>  
>  
> $ echo $?  
>  
> 139  
>  
>  
>  
>  
>  
>  
>  
>  
> Now, if I do the same thing inside an IDL SPAWN command I get the following:  
>  
>  
>  
>  
> IDL> SPAWN, 'myexe', stdout, stderr, EXIT_STATUS = exit_stat  
>  
>  
>
```

```
> IDL> print, exit_stat
>
>      0
>
>
>
> IDL> help, stderr
>
> STDERR      STRING  = Array[11]
>
>
>
> IDL> print, stderr, format='(a)'
>
>
>
> Program received signal SIGSEGV: Segmentation fault - invalid memory
>
> reference.
>
>
>
> Backtrace for this error:
>
> #0 0x7F39A545DA77
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> #1 0x7F39A545E07E
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> #5 0x409A9F in sub3_
>
> #6 0x42BABA in MAIN__ at myprog.f90:0
>
>
>
> So it's still failing but the exit_status is always 0 (i.e. successful)
>
>
>
> I've tried the command with /SH and /NOSHELL and get the same result.
>
>
>
```

> Does anyone have any idea why SPAWN is not setting the EXIT\_STATUS  
>  
> correctly?  
>  
>  
>  
> cheers,  
>  
>  
>  
> paulv  
>  
>  
>  
> p.s.  
>  
> IDL> print, !VERSION  
>  
> { x86\_64 linux unix linux 8.3 Nov 15 2013 64 64}

After IDL documentation, the 3rd argument and keyword EXIT\_STATUS are mutually exclusive:  
check your STDERR argument, you should find 139 herein.  
alx.

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Subject: Re: SPAWN exit status different from shell exit status.

Posted by [Craig Markwardt](#) on Tue, 01 Jul 2014 18:49:27 GMT

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On Monday, June 30, 2014 10:04:52 AM UTC-4, Paul van Delst wrote:

> Does anyone have any idea why SPAWN is not setting the EXIT\_STATUS  
> correctly?

Works for me.

IDL> spawn, 'bash -c "exit 10", exit\_status=exit\_status

IDL> print, exit\_status

----> 10

I tried IDL 7 and IDL 8, Linux and Mac.

Craig

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