
Question

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\$ZF(-100,..) issues

Hi, I found some issues with \$ZF(-100) whilst replacing our old \$ZF(-1) calls following the security alert. They're easy enough to work around, just figured it might be useful to someone :)

There seems to be some inconsistency with how \$ZF(-100) is functioning between Unix and Win, contrary to the documentation. For example, for a simple ' output directory listing to file ' operation:

Windows:

```
set dev="dir.txt"

set com="dir"

set options(1)=""

set options(2)="e: \nbupg \webserver \"

w $ZF(-100, "/SHELL /STDERR=""NUL"" /STDOUT="dev,com,..options)
```

Expected result (output of dir e: \nbupg \webserver /):

Directory of e: \nbupg \webserver

```
21/06/2018 17:21 <DIR>      .
21/06/2018 17:21 <DIR>      ..
15/04/2015 21:53      13,740 ABOUTAPACHE.txt
08/12/2017 22:10 <DIR>      bin
08/12/2017 22:09 <DIR>      cgi-bin
16/10/2017 10:54      248,177 CHANGES.txt
21/06/2018 17:21 <DIR>      conf
08/12/2017 22:09 <DIR>      error
21/06/2018 17:21 <DIR>      htdocs
```

```

08/12/2017 22:10 <DIR>      icons
08/12/2017 22:10 <DIR>      include
17/05/2016 18:59      3,869 INSTALL.txt
08/12/2017 22:10 <DIR>      lib
08/12/2017 09:33      40,401 LICENSE.txt
30/06/2018 23:17 <DIR>      logs
28/12/2017 15:25 <DIR>      modules
08/12/2017 09:33      2,311 NOTICE.txt
08/12/2017 09:33      35,810 OPENSSSL-NEWS.txt
08/12/2017 09:33      4,668 OPENSSSL-README.txt
23/01/2014 17:33      4,752 README.txt

      8 File(s)      353,728 bytes

      12 Dir(s) 24,989,622,272 bytes free

```

Actual result (within dir.txt):

Volume in drive E is Data

Volume Serial Number is 94F7-0AB1

Directory of e:\nbupg\work

```

03/07/2018 15:43 <DIR>      .
03/07/2018 15:43 <DIR>      ..
28/06/2018 16:25      0 16092dir.dat
03/07/2018 15:36      1,927 7760dir.dat
28/06/2018 17:03      0 chris.txt
03/07/2018 15:43      0 dir.txt
28/06/2018 17:00      0 myfile.txt
29/06/2018 14:27 <DIR>      newlycreateddirectory2

```

29/06/2018	14:29	<DIR>	newlycreateddirectory3
03/07/2018	14:38		0 NULL
29/06/2018	14:29		0 stderrtelnet.txt
28/06/2018	17:57	<DIR>	temp
28/06/2018	17:29		7 temp.log
28/06/2018	17:38		0 temp.txt
28/06/2018	17:32	<DIR>	test folder
30/06/2017	15:28		356 userlist.txt
		10 File(s)	2,290 bytes

Directory of e:\nbupg\webserver

21/06/2018	17:21	<DIR>	.
21/06/2018	17:21	<DIR>	..
15/04/2015	21:53		13,740 ABOUTAPACHE.txt
08/12/2017	22:10	<DIR>	bin
08/12/2017	22:09	<DIR>	cgi-bin
16/10/2017	10:54		248,177 CHANGES.txt
21/06/2018	17:21	<DIR>	conf
08/12/2017	22:09	<DIR>	error
21/06/2018	17:21	<DIR>	htdocs
08/12/2017	22:10	<DIR>	icons
08/12/2017	22:10	<DIR>	include
17/05/2016	18:59		3,869 INSTALL.txt
08/12/2017	22:10	<DIR>	lib
08/12/2017	09:33		40,401 LICENSE.txt
30/06/2018	23:17	<DIR>	logs
28/12/2017	15:25	<DIR>	modules
08/12/2017	09:33		2,311 NOTICE.txt

```

08/12/2017 09:33      35,810 OPENSSSL-NEWS.txt
08/12/2017 09:33      4,668 OPENSSSL-README.txt
23/01/2014 17:33      4,752 README.txt

      8 File(s)      353,728 bytes

      12 Dir(s) 24,989,622,272 bytes free

```

For some reason it is printing out the contents of the current directory as well as the specified one. If you set options(1) to a non-null, valid argument (eg options(1)="/n"), it works, but according to the docs: " You can specify a null argument as "" " , so null should work.

Using a comma-delimited list of arguments works fine, even with a null arg. Eg w \$ZF(-100,"/SHELL /STDERR=""NUL"" /STDOUT=_dev,com,,e: hbug /webserver /)

Unix:

```

set dev="dir.txt"

set com="ls"

set options(1)="-l"

set options(2)="/rbts/webserver"

w $ZF(-100,"/SHELL /STDERR=""NUL"" /STDOUT=_dev,com,.options)

```

Expected result (output of ls -l /rbts/webserver)

```

total 84

-r--r--r-- 1 bin    bin    11404 Oct 12 2016 GETTINGSTARTED
drwxr-xr-x 2 bin    bin     1024 Mar 23 08:47 LICENSES
drwxr-xr-x 2 bin    bin     1024 Mar 23 08:48 bin
drwxr-xr-x 3 bin    bin     1024 Mar 23 08:47 build
drwxr-xr-x 2 bin    bin     1024 Mar 23 08:47 cgi-bin
drwxr-xr-x 6 bin    bin     1024 Mar 23 08:48 conf
drwxr-xr-x 3 bin    bin     1024 Mar 23 08:47 error
drwxr-xr-x 4 bin    bin     1024 Mar 23 08:48 hpwsdocs

```

```
drwxr-xr-x  5 www      other      2048 Mar 23 08:47 htdocs
drwxr-xr-x  3 bin      bin        4096 Mar 23 08:47 icons
drwxr-xr-x  2 bin      bin        5120 Mar 23 08:47 include
drwxr-xr-x  5 bin      bin        1024 Mar 23 08:47 lib
drwxr-xr-x  2 www      other      1024 Jul  3 05:46 logs
drwxr-xr-x  4 bin      bin         96 Mar 23 08:47 man
drwxr-xr-x 14 bin      bin       6144 Mar 23 08:47 manual
drwxr-xr-x  2 bin      bin       4096 Mar 23 08:47 modules
dr-xr-xr-x  4 bin      bin         96 Mar 23 08:47 newconfig
dr-xr-xr-x  3 bin      bin         96 Mar 23 08:47 old
drwxr-xr-x  2 bin      bin         96 Mar 23 08:47 util
drwxr-xr-x  6 bin      bin         96 Mar 23 08:48 webproxy
```

This is correct, but strangely for Unix the comma-delimited list doesn ' t work. Eg:

```
RBTS>w $ZF(-100, "/SHELL /STDERR=""NUL"" /STDOUT="_dev,com,"-l,/rbts/webserver")
```

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(dir.txt is empty)

Also, for some reason Studio is giving me an error message in the log when using .options:

```
ERROR: Interface.cls(1189) :Illegal number literal options
```

Not sure why – my use of it seems identical to that in the documentation example. My studio version is Ensemble 2017.1.1.111.0

[#Caché](#)

Source URL: <https://community.intersystems.com/post/zf-100-issues>