Instead of background compiles WINZOS uses a foreground compile panel. This would replace zOS ISPF Option 5 and / or zOS ISPF Option 4. Key "C" in the Option - Press Enter

Scree	Screen : ZOSPD195					
Option	n ===> <b>C_</b> Z/OS SIMU	WINZOS Primary Option Menu Version 7 LATION USING THE WINDOWS OPERATING S	.Е YSTEM			
0 1 2 3 C P E 6 S T X	Settings Browse Edit Utilities Cobol Compile Set Project Extensions Windows CMD SDSF Trans Manager Exit	Terminal and WINZOS user parameters Display source data or listings Create or edit source programs Perform utility functions Foreground COBOL compile / link Project setting for debug / execute User defined functions / processes Execute Windows Commands SDSF Panels CICS Execute / Resource definitions Terminate WINZOS using log/list definitions	Date : 01/23/25 Time : 11:34 Terminal. : 3278-2 PF Keys: 12 Language. : English Appl ID: ISR TSO logon.: EXAMPLES System ID : WINZOS Release: 7.E Released. : JAN 15 2025 (FCT,PPT,etc.) aults			
Licens (C) Co URL: Email Ready	sed Materials opyright Metamu https://www.I : development@	- Property of Metamorphous LLC orphous LLC 2010 - 2025 WinCOBOL.com www.WinCOBOL.com				

The compile panel is displayed. The Project is EXAMPLES (provided with the install) Instead of keying a member WINZOS will display the PDS members in EXAMPLES.Z.COBOL

**Press Enter** 

```
Screen : ZOSPD195
ISRFP02----- WINZOS COBOL Compile
                                                 ----
COMMAND ===>
  ->COMPILE E ->EDIT V ->LISTING Z ->EBCDIC A ->ANIMATE R ->RESTORE ASCII
         Use the ENTER KEY to display the member list
  COMPILER ===> G
                      GNUCOBOL Micro Focus / Fujitsu require license fees
            ===> EXAMPLES
                                         EBCDIC
  PROJECT
                                                             ===> Y
  GROUP
            ===> Z
                                         PREPROCESSOR OPTIONS ===> A
            ===> COBOL
                                         (C CICS S SQL A Dynamic M Member )
  TYPE
                                         SYMBOL / PARSE TREE ===> Y
  MEMBER
            ===>
  OTHER DATA SET NAME ===> Z.COBOL
  SYSLMOD OVERRIDE DSN ==>
  COBOL COMPILER:
                     ==> ZOS
  COBOL OPTIONS:
                   ===> --DEBUG -O(0) -FSIGN=EBCDIC
                   ===>
                   ===>
                   ===>
  COPYBOOK LIBRARIES:
                   ===>
                   ===>
                   ===>
                   ===>
Ready
```

"S or E" in FX will edit the member

"M" will compile the member for normal execution, that is no animation

"Z" will compile the member to interact with EBCDIC datasets (more on "Z" later in a follow up doc)

Screen : ZOSPD195				X
COMPILER:	Р	DS SERVICES		
COMMAND ===>				
		UPDATED	COMPILED PR	EPROC
FX NAME RENAME	MODLV CREATED	DATETIME	DATETIME C	SD
- A1CALLED	6 24/05/16	05/17/20 12:57:15	24/06/28 22:50:31	
- A1CALLER	12 24/05/16	05/30/20 10:17:00	24/06/24 14:51:27	
- A2CANIM	4 24/03/28	03/28/20 13:53:33	24/03/28 14:56:36	
- АССТ00	5 22/06/02	11/10/20 12:08:06	24/10/22 10:55:06	
- ACCTØ1	4 23/04/30	10/26/20 21:04:50	24/10/22 10:55:13	
- ACCT02	1 23/01/28			
- ACCT13	2 23/11/01	11/01/20 22:25:44		
A AGROUP	101 24/05/27	01/11/20 15:58:33	25/01/23 11:33:47	
- ARTBATCH	2 22/02/22	02/22/20 17:51:12	24/11/18 11:28:13	
- AVARYSEQ	154 23/11/02	12/16/20 22:14:48	25/01/21 12:03:31	
- AWRITE1	3 24/11/27	12/10/20 21:57:42	25/01/22 11:13:40	
- AWRITEBC	171 24/10/27	01/16/20 15:04:31	25/01/21 12:00:54	
- E5	25 23/09/13	06/26/20 15:59:53	25/01/10 16:44:26	
- E6	24 23/09/18	07/25/20 21:36:31	24/07/28 18:21:27	
- E7	7 23/10/06	10/29/20 14:16:28	23/11/12 17:02:10	
- EBCDEMO1	14 23/09/19	09/08/20 23:14:53	24/10/22 12:47:21	
- EBCREAD	17 24/09/25	12/06/20 17:07:01	24/12/06 17:08:04	
<ul> <li>EBCTEST</li> </ul>	17 24/07/28	10/16/20 18:58:27	24/10/16 16:58:56	
- EBCWRITE	29 24/09/29	11/06/20 16:57:46	24/11/06 16:58:21	
- MAKEVSAM	7 23/09/29	09/29/20 11:05:58	24/08/02 21:33:00	
Ready				

Key "A" in FX AGROUP - Press Enter - This will compile and build the animation interface

The compile with animation ended with return code 0 Using the express feature of ISPF key "=2" on the command line. The =2 on the command line will display the ISPF Edit Panel

Screen : ZOSPD195			
COMPILER:	Р	DS SERVICES	
COMMAND ===> =2			
		UPDATED	COMPILED PREPROC
FX NAME RENAME	MODLV CREATED	DATETIME	DATETIME C S D
- A1CALLED	6 24/05/16	05/17/20 12:57:15	24/06/28 22:50:31
- A1CALLER	12 24/05/16	05/30/20 10:17:00	24/06/24 14:51:27
- A2CANIM	4 24/03/28	03/28/20 13:53:33	24/03/28 14:56:36
- ACCT00	5 22/06/02	11/10/20 12:08:06	24/10/22 10:55:06
- ACCTØ1	4 23/04/30	10/26/20 21:04:50	24/10/22 10:55:13
- ACCT02	1 23/01/28		
- ACCT13	2 23/11/01	11/01/20 22:25:44	
AGROUP RC=0000	101 24/05/27	01/11/20 15:58:33	25/01/23 11:33:47
- ARTBATCH	2 22/02/22	02/22/20 17:51:12	24/11/18 11:28:13
<ul> <li>AVARYSEQ</li> </ul>	154 23/11/02	12/16/20 22:14:48	25/01/21 12:03:31
- AWRITE1	3 24/11/27	12/10/20 21:57:42	25/01/22 11:13:40
- AWRITEBC	171 24/10/27	01/16/20 15:04:31	25/01/21 12:00:54
- E5	25 23/09/13	06/26/20 15:59:53	25/01/10 16:44:26
- E6	24 23/09/18	07/25/20 21:36:31	24/07/28 18:21:27
- E7	7 23/10/06	10/29/20 14:16:28	23/11/12 17:02:10
- EBCDEMO1	14 23/09/19	09/08/20 23:14:53	24/10/22 12:47:21
- EBCREAD	17 24/09/25	12/06/20 17:07:01	24/12/06 17:08:04
- EBCTEST	17 24/07/28	10/16/20 18:58:27	24/10/16 16:58:56
- EBCWRITE	29 24/09/29	11/06/20 16:57:46	24/11/06 16:58:21
- MAKEVSAM	7 23/09/29	09/29/20 11:05:58	24/08/02 21:33:00
Ready			

Press enter to display the PDS / PDSE members of EXAMPLES.Z.CNTL



The member list of the Z.CNTL PDS is displayed

Key an "S or E" in front of AGROUP

## Press Enter

The edit dialog of EXAMPLES.Z.CNTL(AGROUP) will be displayed

Screen : ZOSPD195				
ISRFPML		EDIT SELECTION PANEL ROW 1 OF 70		
COMMAND ===>		SCROLL==> HALF		
		UPDATED COMPILED PREPROC		
NAME STATUS	MODLV	CREATEDDATETIMEDATETIME C S D		
A1CALLER	0002	24/05/16 24/05/16 16:01:55		
AAA	0002	24/01/02 24/11/23 14:36:14		
AGDG	0002	23/09/14 24/01/23 22:38:01		
AGDGTEST	0004	23/09/28 24/01/23 22:50:28		
S AGROUP	0008	24/05/27 24/11/12 15:06:47		
AIX5	0001	23/10/07		
AIX6	0001	22/02/26		
AIX7	0001	22/01/12		
AIXTEST	0001	23/09/23		
AIXTEST8	0001	22/02/13		
AREADEBC	0007	24/11/09 24/11/12 15:53:56		
ATESTVSM	0001	22/01/16		
AVARYSEQ	0022	23/12/27 24/09/29 23:40:11		
AVSMPRT	0001	22/01/09		
AWRITEBC	0002	24/10/27 24/10/27 18:25:36		
BGROUP	0001	25/01/01		
CATALPDS	0001	23/09/18		
CATALSEQ	0001	23/09/15		
CATLGMBR	0001	23/07/30		
Ready				

To invoke animation of a JCL member - "DEBUG" on the command line Press Enter



Screen : ZANIMK ZANIM1:=====>\WINZOS\LOADLIB\AGROUP.IBZ-----COLS 00001 00072 COMMAND ===> SCROLL ===> 000140 MOVE 000141 'PAGO PROCESADO CON LA INFORMACI¢N DE FACTURACI¢N' TO TEXT-SPANISH 000142 DISPLAY TEXT-SPANISH DISPLAY TEXT-GERMAN 000143 000144 MOVE '1' TO DO-NOTHING MOVE '1' TO DO-NOTHING 000145 000146 DISPLAY TEXT-SPANISH 000147 000148 MOVE 456.78 TO Z117 000149 MOVE 2 TO J 000150 MOVE 1 TO I MOVE 567 TO ZCOMP4 (J) 000151 000152 SET IX1 TO 2 000153 MOVE 456 TO ZCOMP4 (I) MOVE 789 TO ZCOMP4 (1) 000154 MOVE SPACES TO WORKING2 000155 000156 STRING WORKING1 DELIMITED BY SIZE 000157 INTO 000158 WORKING2. 000159 PERFORM VARYING IDS FROM 1 BY 1 UNTIL IDS > 20 MOVE IDS TO SM1 (IDS) 000160 000161 000162 END-PERFORM MOVE 'SSSSSS' TO SM1 (06). 000163 MOVE '1' TO DO-NOTHING 000164 MOVE '1' TO DO-NOTHING 000165 000166 MOVE 785 TO Z115. 000167 ADD 1 TO Z116 000168 ADD 1 TO Z111 000169 ADD 1 TO Z112 ANIMATING KEY:<S>tep <H>elp <E>C mmand <<mark>Z>oom <0-2> <Q>uiet <A>nim <I>ntUp</mark>

Notice the KEY: on the animation panel (last line after statement 169)

"S" is Step to the next instruction

"E" is enter command Mode

"H" will display a help panel

Animation responds to commands indicated on the Animation KEY: Use "S" to step to statement 148 (S S S S S . . . ) Place the mouse cursor over Z117 - Click the mouse Then press the "N" key

11433128.jcl 2>submited		Screen : ZANIM	К
Font		ZANIM1:====>	\WINZOS\LOADLIB\AGROUP.IBZ
		COMMAND ===>	
WINANIM UPDATE DATA	A FIELD PANEL	000140	MOVE
2117		000141	'PAGO PROCESADO CON LA
000000001111111112222222222	2333333333344444444445	000142	TO TEXT-SPANISH
12345678901234567890123456789	012345678901234567890	000143	DISPLAY TEXT-SPANISH
456.78		000144	DISPLAY TEXT-GERMAN
456E78		000145	MOVE '1' TO DO-NOTHING
		000146	MOVE '1' TO DO-NOTHING
		000147	DISPLAY TEXT-SPANISH
F3=Save Value F4=Cancel F5=Re	efresh	000148	MOVE 456.78 TO Z117
		000149	MOVE 2 TO J
11502313.jcl 2>submited			
Font			
WINANIM UPDATE DATA FIELD PA	NEL Z		
2117	ok Reader		
0000000001111111112222222222333333333 12345678901234567890123456789012345678	34444444445 901234567890		
A56.78			
456E78			
3	ro Vide		
F3=Save Value F4=Cancel F5=Refresh	12		
Font	X		
East: East stu	do: Sizo:		
Consolas Regula	ar 10		
@DengXian A Regula			
ConsolasItalic	9		
Courier Bold	10 =		
Courier New Bold I	talic 11		
Dina	14		
Fixedsys 👻	16 -		
Sampl	le		
	AaBbYyZz		
Script			
Wester	m 🔽		
, wester			
Chamman fast			
Show more tonts			
F	OK Cancel		

Animator displays the current value of the data field Z117

The font used for this panel can be changed - place the mouse on font - "Click" Select fonts and size from the dialog.

"Consolas" differs the display of zero and "O" - zeros are "slashed" The Display / Update panel using a font of CONSOLAS, size "10"

■ 11502313.jcl 2>submited
Font
WINANIM UPDATE DATA FIELD PANEL
Z117 0000000001111111112222222223333333334444444444
F3=Save Value F4=Cancel F5=Refresh

Key a new value then press F3 OR- Pressing F4 will discard any changes Either returns to the animation process

"S" (step) down to statement 166 Move the mouse cursor to statement 166 - "Click" on Z115 Then press the "N" key

Entering data that is not numeric in to a COMP, COMP-3, or NUMERIC USAGE Display is rejected

I1502313.jcl 2>submited	000153	MOVE 456 TO ZCOMP4 (I)
Font	000154	MOVE 789 TO ZCOMP4 (1)
1000	000155	MOVE SPACES TO WORKING2
	000156	STRING
WINANIM UPDATE DATA FIELD PANEL	000157	WORKING1 DELIMITED BY SIZE
	000158	INTO
Z115	000159	WORKING2.
000000001111111112222222233333333334444	4444445 000160	PERFORM VARYING IDS FROM 1 BY 1 UNTIL IDS > 20
1234567890123456789012345678901234567890123	34567890 000161	MOVE IDS TO SM1 (IDS)
X0785	000162	END-PERFORM
	000163	MOVE 'SSSSSS' TO SM1 (06).
	000164	MOVE '1' TO DO-NOTHING
	000165	MOVE '1' TO DO-NOTHING
	000166	MOVE 785 TO Z115.
	000167	ADD 1 TO Z116
DATA PUST BE NUMERIC	000168	ADD 1 TO Z111
F3=Save value F4=cancel F5=Refresh	000169	ADD 1 TO Z112
	ANIMATING	KEY: <s>tep <h>elp <e>Command <z>oom &lt;0-2&gt; <q>uiet <a>nim &lt;</a></q></z></e></h></s>

F3 will save the data keyed

F4 will discard any update made

F5 will refresh the display to the initial data received

## Press "E" to enter **Command Mode**

Notice that animator is now in Command Mode (as opposed to "Animating") Edit Mode has positioned to the source code line last executed

Key	/ "F ZOSPD446"	on the	panel	Command	line	- Press enter
-----	----------------	--------	-------	---------	------	---------------

Screen : ZANIMK		
ZOSPI004:\WI	NZOS\LOADLIB\AGROUP.IBZ	COLS 00001 00072
COMMAND ===> F ZO	SPD446	SCROLL ===> HALF
0000166	MOVE 785 TO Z115.	
0000167	ADD 1 TO Z116	
0000168	ADD 1 TO Z111	
0000169	ADD 1 TO Z112	
0000170	MOVE 2 TO I	
0000171	MOVE 'TTTTTT' TO SM1 (I).	
0000172	MOVE '1' TO DO-NOTHING	
0000173	MOVE '1' TO DO-NOTHING	
0000174	MOVE 2 TO J	
0000175	MOVE 19 TO I	
0000176	MOVE SM1 (I) TO SM2 (J)	
0000177	MOVE '1' TO DO-NOTHING	
0000178	MOVE '1' TO DO-NOTHING	
0000179	MOVE 'ABCD' TO TESTA	
0000180	MOVE 2 TO I	
0000181	MOVE 2 TO J	
0000182	MOVE '1' TO DO-NOTHING	
0000183	MOVE '1' TO DO-NOTHING	
0000184	MOVE '01' TO TESTA (I:J)	
0000185	MOVE '1' TO DO-NOTHING	
0000186	MOVE '12' TO TESTA (3:2)	
0000187	MOVE '1' TO DO-NOTHING	
0000188	MOVE '1' TO DO-NOTHING	
0000189	MOVE '1' TO DO-NOTHING	
0000190	MOVE '13' TO TESTA (J:2)	
0000191	MOVE '1' TO DO-NOTHING	
0000192	MOVE '1' TO DO-NOTHING	
0000193	MOVE '1' TO DO-NOTHING	
0000194	MOVE '14' TO TESTA (1:J)	
0000195	MOVE '1' TO DO-NOTHING	
In Command Mode		Caps Lock ON

Edit mode found ZOSPD446 With the cursor on line 235 Press "B"

Screen : ZANIMK	
ZOSPI004:\WINZOS\LOADLIB\AGROUP.IBZ	COLS 00001 00072
COMMAND ===>	SCROLL ===> HALF
0000232 MOVE 7654 TO ABCD1	
0000233 MOVE 7654 TO ABCD1	
0000234 MOVE 7654 TO ABCD1	
0000235 CALL ZOSPD446 USING	
0000236 ZOSPC-DSN	
0000237 MOVE 7654 TO ABCD1	
0000238 MOVE '1' TO DO-NOTHING	
GOBACK.	
******** *****************************	*******
The Command Made RREAK DOINT SET	

Notice that the above edit mode message has indicated that a Break Point has been set at line 235

Return to Animation mode by pressing the Esc key Press "Z" to "ZOOM"

The	animation	stops	at the	break	point

Screen : ZAN	імк 📃 🗖 🗾 🗾
ZANIM1:=====	=>\WINZOS\LOADLIB\AGROUP.IBZ COLS 00001 00072
COMMAND ===>	SCROLL ===> HALF
000216	MOVE 1 TO J
000217	MOVE 'BZ' TO HOX-PL-POOL (J)
000218	MOVE '1' TO DO-NOTHING
000219	MOVE 9876 TO ABCD1
000220	MOVE '1' TO DO-NOTHING
000221	SET IX1 TO 2
000222	MOVE 2 TO IX1
000223	MOVE '222' TO DATA1 (IX1)
000224	MOVE 8765 TO ABCD1
000225	MOVE '1' TO DO-NOTHING
000226	SET IX2 TO 3
000227	MOVE '33' TO DATA2 (IX2)
000228	SET IX3 TO 2
000229	MOVE '1923' TO DATA3 (IX3)
000230	MOVE 7654 TO ABCD1
000231	MOVE 7654 TO ABCD1
000232	MOVE 7654 TO ABCD1
000233	MOVE 7654 TO ABCD1
000234	MOVE 7654 TO ABCD1
000235	CALL ZOSPD446 USING
000236	ZOSPC-DSN
000237	MOVE 7654 TO ABCD1
000238	MOVE '1' TO DO-NOTHING
000239	GOBACK.
- ********	**************************************
-	
-	
-	
-	
ANIMATING	KEY: <s>tep <h>elp <e>Command <z>oom &lt;0-2&gt; <q>uiet <a>nim <i>ntUp</i></a></q></z></e></h></s>

Press "S" (step) Animation is now in program ZOSPD446

Screen : ZANI	ик 📃 🗖 🗮 🏹		
ZANIM1:=====>\WINZOS\LOADLIB\ZOSPD446.IBZCOLS 00001 00072			
COMMAND ===>	SCROLL ===> HALF		
000025	IF RECURSE = '1'		
000026	MOVE '0' TO RECURSE		
000027	END-IF		
000028	IF SAVE-JCL-DSN = SPACES		
000029	MOVE '1' TO DO-NOTHING		
000030	MOVE LINK-DSN TO SAVE-JCL-DSN		
000031	MOVE 'SYS1.UADS' TO SAVE-JCL-DSN		
000032	MOVE '1' TO DO-NOTHING		
000033	ELSE		
000034	MOVE '1' TO DO-NOTHING		
000035	MOVE SAVE-JCL-DSN TO LINK-DSN		
000036	MOVE SPACES TO SAVE-JCL-DSN		
000037	MOVE '1' TO DO-NOTHING		
000038	END-IF.		
000039	MOVE '1' TO DO-NOTHING.		
000040	GOBACK.		
****** *******************************			
-			
-			
-			
-			
-			
-			
-			
-			
-			
-			
-			
ANIMATING K	EY: <s>tep <h>elp <e>Command <z>com &lt;0-2&gt; <q>uiet <a>nim <i>ntUp</i></a></q></z></e></h></s>		

Step to statement number 32. Click on SAVE-JCL-DSN in statement 31 Then press the "N" key The Update Data Field panel is displayed

## Press F4



Press "Z" to ZOOM. Animator will execute until a GOBACK is encountered

When the Job ends Animator will display this notification

Screen : ZDISPLAY	_ 0	X
MESSAGE F Job Agroup (6663) Ender	NZOS / WINANIM	

The edit panel will be updated with the JOB disposition



Jan 23, 2025