## **GX Progress Windows**

Although the GXBAR\$ and GXBRU\$ routines allow a single progress bar to be displayed within a special Progress Bar Window they do not allow a progress bar to be displayed within a standard application window. This note describes a technique that allows one, **or more**, progress bars to be displayed on a standard application window.

Furthermore, the format of the Progress Bar Window displayed by the combination of the GXBAR\$ and GXBRU\$ sub-routines is very rigid (e.g. only a small, fixed number of text lines can be displayed above and below the actual bar). The technique described in this document allows complete control over the fields and labels displayed around the "move-able" progress bar.

A Progress Bar is added to a standard application window by coding a special label of the form:

"~Pndddxxxxx"

where:

P Progress Bar control specifier
n Index value in the range 1 to 9
ddd Depth (in pixels of the control)
xxxxx Filler text to set the width of the control

**Important Note:** The depth specified in pixels thus the progress bar control can be displayed over multiple lines in the application window. Care must be taken to ensure there is sufficient space to allow for the progress bar control.

The range of values (minimum and maximum) that the progress control displays is specified using the GXPRG\$ routine (see GXPRG\$.DOC). If the GXPRG\$ routine is not used the control automatically defaults the minimum and maximum values to 0 and 100, respectively.

The position of the progress bar is updated by updating a PIC 9(9) COMP data field that is defined **at the same position in the window** as the label containing the "~P*ndddxxxxx*" text. For example:

03 03 03 *	03 15 15	"Units" "~P10257890" Z-D1 9(9)	С	NSC	* * *	Description of 1st progress bar Label Specifying 1st progress bar Data field to update 1st progress bar
05 05 05 *	03 15 15	"Tens" "~P20257890" Z-D2 9(9)	С	NSC	* * *	Description of 2nd progress bar Label Specifying 2nd progress bar Data field to update 2nd progress bar
07 07 07	03 15 15	"Hundreds" "~P30257890" Z-D3 9(9)	С	NSC	* * *	Description of 3rd progress bar Label Specifying 3rd progress bar Data field to update 3rd progress bar

If the value in the associated data field (e.g. Z-D1) when it is displayed (typically by using the SHOW verb) is below the minimum value specified using the GXPRG\$ routine, the minimum value will be used. Similarly, if the value in the associated data field (e.g. Z-D1) when it is displayed (typically by using the SHOW verb) is above the maximum value specified using the GXPRG\$ routine, the maximum value will be used.

Global Development System Subroutines Manual V8.1

## **Version Requirements**

GX V3.4j GSM SP-16

## See Also

GXPRG\$

## Example FRAME PROGRS DATA DIVISION

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77 77 77 77 77	Z-( Z-( Z-( Z-(	C1 C2 C3 COUNT	PIC PIC PIC PIC	9 (9 9 (9 9 (9 9 (9 9 (9	) CON ) CON ) CON ) CON	4P 4P 4P 4P							
^ 77 77 77 77 77	Z – V Z – I Z – I	VHDL INDX PRM1 PRM2	PIC PIC PIC PIC	9 (4 9 (4 9 (9 9 (9	) CON ) CON ) CON ) CON	4P 4P 4P 4P							
^ 77 77 77 *	Z — I Z — I Z — I	01 02 03	PIC 9(9) C PIC 9(9) C PIC 9(9) C			COMP COMP COMP							
01	)2	P1 P1VER VALUE	PIC 1	9(4	) COI	ſΡ							
( ( (	)2 )2 )2	P1ID P1MIN P1MAX	PIC PIC PIC	9(2 9(9 9(9	) CON ) CON ) CON	4P 4P 4P							
* WINDOW W1													
BAS	SE A	AT 5 5											
* 01 *	02	"Progi	ress	con	trol	displa	ay win	dow"	A12				
03 03 03 05	03 15 15 03	"Units Z-D1 "~P102	s" 9(9) 25789	C 90"		NSC							
05 05 05	15 15	Z-D2 "~P202	9(9) 25789	с Э0"	NSC								
07 03 "Hundreds" 07 15 Z-D3 9(9) C NSC 07 15 "~P30257890"													
*02	2 02	2 WINUI	L	Х	(0)		NUL						
09 *	20	" Bre	eak	"			BTN U	-7					
ENI *	1IWC	JDOW											
WIN *	NDO	₩2											
BAS *	SE A	AT 10 1	10										
02 *	02	"Progi	ress	con	trol	window	w"	A12					
04 *	02	W2TEM	-	Х	(4)			NSC	NUL				
06 *	06	" Sta	art	"	BTN	U50							
ROUTINES SECTION *													
R-FUNC.													

IF \$FUNC < 50 EXIT IF \$FUNC > 99 EXIT IF \$FUNC = 50PERFORM CE-START-TEST ON EXCEPTION CLEAR WINDOW W1 END END EXIT PROCEDURE DIVISION SECTION AA-MAIN. ENTER WINDOW W2 IGNORE EXCEPTION EXIT SECTION CA-SET-RANGE MOVE Z-INDX TO P1ID MOVE Z-PRM1 TO P1MIN MOVE Z-PRM2 TO P1MAX CALL GXPRG\$ USING P1 \* ASSUME CURRENT WINDOW EXIT SECTION CE-START-TEST DISPLAY WINDOW W1 IGNORE EXCEPTION CALL B\$GX-7 MOVE 0 TO Z-WHDL MOVE 1 TO Z-INDX MOVE 0 TO Z-PRM1 MOVE 10 TO Z-PRM2 PERFORM CA-SET-RANGE MOVE 2 TO Z-INDX PERFORM CA-SET-RANGE MOVE 3 TO Z-INDX PERFORM CA-SET-RANGE MOVE 0 TO Z-C1 MOVE Z-C1 TO Z-D1 MOVE 0 TO Z-C2 MOVE Z-C2 TO Z-D2 MOVE 0 TO Z-C3 MOVE Z-C3 TO Z-D3 DISPLAY WINDOW W1 DO FOR Z-COUNT = 1 TO 999 CALL TEST\$ ON EXCEPTION EXIT WITH 1 ADD 1 TO Z-C1 IF Z-C1 = 10MOVE 0 TO Z-C1 ADD 1 TO Z-C2 IF Z - C2 = 10MOVE 0 TO Z-C2 ADD 1 TO Z-C3 MOVE Z-C3 TO Z-D3 SHOW WINDOW W1 FIELD Z-D3 END MOVE Z-C2 TO Z-D2 SHOW WINDOW W1 FIELD Z-D2

END

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MOVE Z-C1 TO Z-D1
SHOW WINDOW W1 FIELD Z-D1
ENDDO
CLEAR WINDOW W1
EXIT
*
ENDFRAME
ENDSOURCE
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