

# GXBAR\$ - Display Progress Bar on GX

The GXBAR\$ routine is used to display, or remove, a Progress Bar on GX windows. Between the initial display and the removal of the Progress Bar it is expected that the GXBRU\$ routine would be called, repeatedly, to update the contents of the Progress Bar.

## 1. Invocation

To display an initial Progress Bar code:

```
CALL GXBAR$ USING ba
```

where *ba* is a control block of the following format:

01	BA				
02	BAVERS	PIC 9(2)	COMP	VALUE 1	* Version number of BA block
					* This must be set to 1
02	BALINE	PIC 9(4)	COMP		* Top left line of window
02	BACOL	PIC 9(4)	COMP		* Top left column of window
					* If the line and column
					* are set to zero then the
					* window will be automatically centred
02	BAMIN	PIC 9(9)	COMP		* Minimum value for progress
					* control range (usually set to 0)
02	BAMAX	PIC 9(9)	COMP		* Maximum value of progress
					* control range
					* (100 if using percentages)
02	BAWID	PIC 9(4)	COMP		* Progress control width in pixels
02	BAHIGH	PIC 9(4)	COMP		* Progress control height in pixels
02	BAMARGIN	PIC 9(2)	COMP		* Left and right margin width
					* for progress control bar in
					* in pixels -1 to use default
02	BABORD	PIC 9(2)	COMP		* Top and bottom border height
					* for progress bar in pixels
					* -1 to use default
02	BACANCEL	PIC 9(2)	COMP		* 0 = Suppress Cancel button
					* 1 = Display Cancel button
02	BABTNL	PIC 9(4)	COMP		* -1 = use default button text of "Cancel"
					* 0 = zero-terminated button text string
					* N= length of the button text
02	BABTNP	PIC PTR			* Pointer to button text string
02	BABTNO	PIC 9(2)	COMP		* Offset above window frame
					* in pixels of button
					* -1 to use default
02	BATITL	PIC 9(4)	COMP		* -1 = no title specified
					* 0 = zero-terminated string
					* N = length of title string
02	BATITP	PIC PTR			* Pointer to title string
02	BATXT OCCURS 3				* Three text messages
					* The first text message will
					* appear above the progress
					* bar and the last two below
					* the progress bar. You may
					* selectively have or not have them
03	BATXTM	PIC 9(4)	COMP		* Left margin size from edge
					* of window to text in pixels
					* -1 to use default
03	BATXTO	PIC 9(2)	COMP		* offset below title for message 1
					* or offset between text 2 and text 3
					* or offset between text 2
					* and button if text 3 is not present
					* or offset between text 2 and
					* window frame if text 3
					* and button is missing for text 2
					* or offset between text 3 and button
					* or offset between text 3 and
					* window frame if button is
					* is not present for text 3 in pixels

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```
03 BATXTL      PIC 9(4) COMP      * -1 to use default
                                * -1 = no text specified
                                * 0 = zero-terminating text string
                                * N = length of text string
03 BATXTP      PIC PTR            * Pointer to text string
```

To remove a Progress Bar code:

```
CALL GXBAR$
```

## 2. STOP Codes and Exception Conditions

The following STOP codes may be generated by GXBAR\$:

STOP code	Description
14503	GXBAR\$ has been called by an application that is not running on GX.
14504	Unknown version of BA control block (i.e. BAVERS does not contain 1)
14505	Incompatible version of GX, or GX was unable to create a Progress Bar window.
14506	The total length of the GX command block has exceeded 8192.
14507	An attempt has been made to establish Text Message-3 without establishing Text Message-2

The following exception conditions may be returned by GXBAR\$:

EXIT code	\$\$COND	Description
14501	1	It was not possible to allocate a temporary 32-bit page to hold the GX command block.

## 3. Programming Notes

GXBAR\$ is only available when running on GX. Any attempt to use GXBAR\$ on a non-GX terminal will result in a STOP code.

GXBAR\$ **must** be used to display an *initial* Progress Bar before GXBRU\$ can be used to *update* a Progress Bar.

**Important Note:** In order for the Progress Bar to maintain the focus there must be no accepts in any other window between the initial call of GXBAR\$ (to display the Progress Bar) and the final call of GXBAR\$ (to remove the Progress Bar).

## 4. Examples

[EXAMPLE REQUIRED]

## 5. Copy-Books

See copy-book "b\$" in copy-library S.SYS32. Note that this copy-book **MUST** be expanded using a SUBSTITUTING clause. For example:

```
COPY "b$" USING "BA"
```

## 6. See Also

GXBRU\$ - Update Progress Bar Dialogue Box