# **GRAPH\$ - Display Graph on GX**

The GRAPH\$ routine can be used to display a graph, in a wide variety of formats, on GX.

#### 1. Invocation

To display a graph on GX code:

CALL GRAPH\$ USING gr call\_back\_routine

where *gr* is a control block described in GRINI\$.DOC and *call\_back\_routine* is a routine that must be coded to supply the data and data formats required by GRAPH\$ to draw the grap.

## 2. STOP Codes and Exception Conditions

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

STOP code	Description
14401	GRAPH\$ has been called by an application that is not running on GX.

The following EXIT codes may be returned by GRAPH\$:

EXIT code	\$\$COND	Description
14401	1	Unable to allocate temporary data page
14402	2	The total length of the GX command block has exceeded 8192.
14404	4	GRAPH\$ interface is not supported by GX

## 3. **Programming Notes**

GRAPH\$ is one of 5 related routines that are used to draw graphs on GX. The general format of a graph-drawing section is of code is always:

CALL GRINI\$ USING GR CALL GRAPH\$ USING GR GRPLOT EXIT *	* Initialise GR-block * Plot the graph
2525501 C55505	
SECTION GRPLOT	* Supply data etc. to GRAPH\$
REPEAT	* Set up X-axis
CALL GRXAX\$ USING XA	* set up each X-axis point
COUNT ON ???	* number of X-axis points
REPEAT	* Set up Z-axis and plot points
CALL GRZAX\$ USING ZA	* set up each Z-axis point
CALL GRPLT\$ USING PT	* plot each data item
COUNT ON ???	* number of Z-axis points
EXIT	* return back to GRAPH\$

#### 4. Examples

None.

#### 5. Copy-Books

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

COPY "G\$" USING "GR"

#### 6. See Also

GRINI\$ Initialise GRAPH\$ GR Block With Default Settings

GRZAX\$ Define Z-axis graph details

- GRXAX\$ Define X-axis graph details
- GRPLT\$ Plot data item on graph