

# GXARC\$ - Archive Windows File on GX

The GXARC\$ routine can be used to display a "File Archive" Dialogue Box on the PC that is running the current GX session.

## 1. Invocation

To display a "File Archive" Dialogue Box on the PC that is running GX code:

```
CALL GXARC$ USING ar
```

where *ar* is a control block of the following structure:

```

01  AR
02  ARVERS      PIC 9(2) COMP      * Version number of AR block
    VALUE      1                  * Must be set to 1
02  ARFILL      PIC 9(4) COMP      * Length of filename, or 0 to indicate
    VALUE      0                  * a zero-terminated string
02  ARFILP      PIC PTR            * Pointer to filename
02  ARDIRL      PIC 9(4) COMP      * Length of directory name, or 0 to
    VALUE      0                  * indicate a zero-terminated string, or
    VALUE      -1                  * -1 to indicate no directory specified
02  ARDIRP      PIC PTR            * Pointer to directory path

```

## 2. STOP Codes and Exception Conditions

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

STOP code	Description
23906	GXARC\$ has been called by an application that is not running on GX.
23907	Unknown version of AR control block (i.e. ARVERS does not contain 1)
23908	The total length of the filename, directory name and GX command block has exceeded 8192.
23909	Incompatible version of GX.
23910	No filename was specified

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

EXIT code	\$\$COND	Description
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23914	14	Unable to allocate temporary work page
23915	15	Unspecified error from GX. The Windows 32-bit error code is available in the \$\$CRES System Variable
23916	16	The replaceable file parameter is not present in the GX.INI file.
23917	17	The Cancel button was selected by the operator.

### 3. Programming Notes

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

If GXARC\$ returns an Exception 15 the 32-bit Windows error code is available in \$\$CRES. The FMESS\$ [fmess\\$.doc](#) sub-routine may be used to convert the error code to a verbose error message.

The file name parameter can specify either:

- an absolute filename (on the filing system of the PC that is running GX);
- an absolute UNC filename on a shared directory (as "seen" from the PC that is running GX);
- a file on, or under, the current directory on the PC that is running GX;
- a file on, or under, the Windows directory on the PC that is running GX;
- a file on, or under, the LocalTempDirectory specified in the GX.INI file;
- a file on, or under, the folder "PFPrintImage", relative to the current GX folder;
- a file on, or under, the folder "XML", relative to the current GX folder;
- a file on, or under, a free-format directory keyword specified in the GX.INI file;
- a file on, or under, a free-format directory keyword specified as a Windows environment variable;

For example assuming that the "current directory" for GX is "C:\GX"; the "Windows directory" is "C:\Windows"; the GX.INI file contains the following setting in the [general] section:

```
LocalTempDirectory=C:\TEMPORARY
```

and the following settings in the [folders] section:

DTEMP1=D:\TEMPORARY  
DTEMP2=F:\TEMPORARY

And the following Windows environment variable is defined:

DTEMP3=G:\TEMPORARY

then the following *filename* parameters will be mapped to the following pathnames on the PC running GX:

Filename	Filename on PC running GX.EXE
C:\WINDOWS\EXAMPLE.TXT	C:\WINDOWS\EXAMPLE.TXT
\\SERVER1\SHARE\EXAMPLE.TXT	\\SERVER1\SHARE\EXAMPLE.TXT
EXAMPLE.TXT	C:\GX\EXAMPLE.TXT
.\EXAMPLE.TXT	C:\GX\EXAMPLE.TXT
SUBDIR\EXAMPLE.TXT	C:\GX\SUBDIR\EXAMPLE.TXT
%TEMP\EXAMPLE.HTML	C:\TEMPORARY\EXAMPLE.HTML
%WINDOWS\EXAMPLE.XML	C:\WINDOWS\EXAMPLES.XML
%DTEMP1\EXAMPLE.TXT	D:\TEMPORARY\EXAMPLE.TXT
%DTEMP2\EXAMPLE.TXT	F:\TEMPORARY\EXAMPLE.TXT
%DTEMP3\EXAMPLE.TXT	G:\TEMPORARY\EXAMPLE.TXT
C:\%DTEMP3\EXAMPLE.TXT	The results of including a variable parameter in the middle of a filename string are undefined.

If a %variable exists both as a Windows environment variable **and** as an option in the [folders] section of the GX.INI the GX.INI file setting will be used.

The %TEMP and %WINDOWS strings are effectively reserved words and cannot be used to define either Windows environments variables or options in the [folders] section of the GX.INI file. The %TEMP string is mapped to the value of the LocalTempDirectory setting in the [general] section of the GX.INI file. If the LocalTempDirectory setting is not defined, the %TEMP string is mapped to the Windows temp directory. The %WINDOWS string is always mapped directly to the Windows folder.

The %XML and %TCPIIMAGES strings are also reserved words and cannot be used to define either Windows environments variables or options in the [folders] section of the GX.INI file. Both these special strings are reserved for internal use only. The %XML string is always mapped directly to the folder "XML", relative to the current GX folder. The %TCPIIMAGES string is always mapped directly to the folder "PFPrintImage", relative to the current GX folder;

## 4. Examples

[EXAMPLES REQUIRED]

## 5. Copy-Books

None.

## **6. See Also**

None.