

SOUND\$ - Play Microsoft System Sound or .WAV File

The SOUND\$ routine can be used to play a sound on the PC running GX. The sound can be defined in a number of ways:

- a standard Windows system sound;
- a .WAV file defined indirectly via the GX.INI file, or a related INI file;
- a .WAV file, the location of which is provided directly by the application.

1. Invocation

To play a standard Windows system sound or a .WAV file code:

```
CALL SOUND$ USING flag sound_id          * flag = 0
or:
CALL SOUND$ USING flag wav_id           * flag = 1
or:
CALL SOUND$ USING flag wav_file        * flag = 2
```

where *flag* is a PIC 9(4) COMP variable, or literal value, which must contain one of the following values:

- | | |
|---|--|
| 0 | Play standard Windows system sound |
| 1 | Play .WAV file defined in the GX.INI file |
| 2 | Play .WAV file passed as the 2nd parameter |

All other values of *flag* are invalid and will result in a STOP code.

If *flag* contains 0 the second parameter, *sound_id*, is a PIC 9(4) COMP variable, or literal value, representing a standard Windows sound. The following *sound_id* values are valid:

- | | |
|----|--|
| 0 | System Default sound |
| 16 | System Hand sound |
| 32 | System Question sound |
| 48 | System Exclamation sound |
| 64 | System Asterisk sound |
| -1 | Standard beep using the computer speaker |

All other values of *sound_id* are invalid and will result in an exception from SOUND\$.

If *flag* contains 1 the second parameter, *wav_id*, is a PIC 9(4) COMP variable, or literal value, between 1 and 9999 representing an entry in the [sounds] section of the GX.INI file. Each entry in the GX.INI [sounds] section is of the form:

```
SoundN=pathname_of_wav_file
```

where *N* is between 1 and 9999 and *pathname_of_wav_file* is the full pathname of the corresponding .WAV file. If a Sound*N* entry corresponding to the *wav_id* is not present in the GX.INI file an exception will be returned by SOUND\$.

Although a description of the GX.INI file is beyond the scope of this manual it should be noted that leading zeroes must **not** be included in the Sound N entries. For example, the GX.INI file entry for *wav_id* 1 must be:

Sound1=*pathname_of_wav_file*

rather than:

Sound0001=*pathname_of_wav_file*

If *flag* contains 2 the second parameter, *wav_file*, is variable length, zero-terminated PIC X(?) string, of up to 300 characters, containing the **full** pathname of the .WAV file. If the *wav_file* cannot be opened an exception will be returned by SOUND\$.

Important note: The pathname defined by *wav_file* represents a file on the 'remote' PC that is running GX.EXE. It does **NOT** refer to a file on the PC/Server that is running GLOBAL.EXE.

2. STOP Codes and Exception Conditions

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

STOP code	Description
14204	SOUND\$ has been called by an application that is not running on GX
14205	The supplied <i>flag</i> value was greater than 2
14206	The <i>wav_file</i> parameter is longer than 300 characters

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

EXIT code	\$\$COND	Description
14204	4	The <i>sound_id</i> does not represent a Windows system sound (<i>flag</i> = 0); or the Sound N entry does not exist in the GX.INI file (<i>flag</i> =1); or the <i>pathname_of_wav_file</i> option in the GX.INI file is not a valid sound file (<i>flag</i> =1); or the <i>wav_file</i> is not a valid sound file (<i>flag</i> =2).

3. Programming Notes

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

4. Examples

The following example plays the Windows system Asterisk sound:

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```
CALL SOUND$ USING 0 64
```

The following example plays the .WAV file corresponding to entry Sound23 in the [Sounds] section of the GX.INI file:

```
CALL SOUND$ USING 1 23
```

The following example plays the file CELERY.WAV in the C:\SOUNDS folder on the PC that is running GX:

```
DATA DIVISION
01  Z-SOUND
   02  FILLER          PIC X(?)
      VALUE           "C:\SOUNDS\CELERY.WAV"
   02  FILLER          PIC X
      VALUE           #00
PROCEDURE DIVISION
CALL SOUND$ USING 2 Z-SOUND
ON EXCEPTION
      ERROR "Sound file not played"
END
```

5. Copy-Books

None.

6. See Also

None.