

The `/FILT=fileFilterStr` flag provides control over the file filter menu in the Open File dialog. This flag was added in Igor Pro 7.00. The construction of the `fileFilterStr` parameter is the same as for the `/F=fileFilterStr` flag of the Open operation. See **Open File Dialog File Filters** on page IV-149 for details.

In Igor7 and later, the `macFilterStr` and `winFilterStr` parameters of the `/I` flag are ignored. Use the `/FILT` flag instead.

Output Variables

GBLoadWave sets the following output variables:

V_flag	Number of waves loaded or -1 if an error occurs during the file load.
S_fileName	Name of the file being loaded.
S_path	File system path to the folder containing the file.
S_waveNames	Semicolon-separated list of the names of loaded waves.

S_path uses Macintosh path syntax (e.g., "hd:FolderA:FolderB:"), even on Windows. It includes a trailing colon.

When GBLoadWave presents an Open File dialog and the user cancels, V_flag is set to 0 and S_fileName is set to "".

Example

```
// Load 128 point single precision version 2 Igor binary wave file
GBLoadWave/S=126/U=128 "fileName"

// Load 8 256 point arrays of 16 bit signed integers into single-precision waves
// after skipping 128 byte header
GBLoadWave/S=128/T={16,2}/W=8/U=256 "fileName"

// Load n 100 point arrays of double-precision floating point numbers
// into double-precision Igor waves with names like temp0, temp1, etc,
// overwriting existing waves. n is determined by the number of bytes
// in the file.
GBLoadWave/O/N=temp/T={4,4}/U=100 "fileName"

// Load a file containing a 1024 byte header followed by a 512 row
// by 384 column array of unsigned bytes into an unsigned byte matrix
// wave and display it as an image
GBLoadWave/S=1024/T={8+64,8+64}/N=temp "fileName"
Rename temp0, image
Redimension/N=(512,384) image
if (<file uses row-major order>)
    MatrixTranspose image
endif
Display; AppendImage image
```

"Row-major order" relates to how a 2D array is stored in memory. In row-major order, all data for a given row is stored contiguously in memory. In column-major order, all data for a given column is stored contiguously in memory. Igor uses column-major order but row-major is more common.

See Also

Loading General Binary Files on page II-166.

FBinRead operation for more complex applications such as loading structured data into Igor structures.

gcd

gcd(A, B)

The gcd function calculates the greatest common divisor of *A* and *B*, which are both assumed to be integers.

Examples

Compute least common multiple (LCM) of two integers:

```
Function LCM(a,b)
    Variable a, b
    return ((a*b)/gcd(a,b))
End
```