

## 'CSW.dll' Manual

CSW.dll was created to allow CSW format files to be easily used by emulators etc. The CSW.dll file may be used and distributed with emulators and utilities if credit is given to the author. The 'CSW.dll' downloadable zip package will normally be residing at [www.worldofspectrum.org](http://www.worldofspectrum.org) and at [www.acornpreservation.org](http://www.acornpreservation.org). Only files with the CSW file format V2.X can be used.

All the functions have unmangled exported names and use the C calling convention.

After every function call that may throw an exception you will have to call `IsExceptionThrown()` to see if an exception was thrown. If one was you would have to call `Close()`. If any exception is thrown by `Close()` then a CSW file cannot be opened again. It isn't likely that an exception will be thrown if the CSW file is ok. There is also `GetExceptionMessage()` that returns a pointer to the message.

These are the functions that do not throw exceptions:

```
bool IsExceptionThrown();  
__int8 const * GetExceptionMessage();  
Returns a pointer to a null terminated error message.  
__int32 GetSamplingRate();  
Could return any value but it is usually 44100.  
bool GetInitialPolarity();  
Returns true for positive first pulse in file.  
bool Finished();  
Returns true for EOF reached only after an attempt to read past the end.
```

These are the functions that may throw exceptions:

```
void Close();  
void Open(__int8 const *);  
Parameter is the file path and name null terminated.  
unsigned __int32 GetNextPulseLength();  
Returns a pulselength or 0 if the end is reached and sets internal finished flag. Moves read pointer to next pulselength.  
void FullRewind();  
Resets the internal state and effectively rewinds the tape.
```

16/1/05 Release 4  
Fixed a bug with uncompressed CSW files.  
Possibly made faster.

18/11/04 Release 3  
Made `Finished()` work exactly as it should.

9/9/04 Release 2  
Changed `GetSamplingRate` to return `__int32`.  
Disallowed files with sampling rate of 0.  
Allowed files to open with any minor version number.

5/7/04 Release 1  
'CSW.dll' V1.1 was released on 5th July 04.

If you have a suggestion for improvement to the program email me at [fraser@members.v21.co.uk](mailto:fraser@members.v21.co.uk). The 'CSW.dll' package is the copyright material of Fraser Ross.