CopyProgressRoutine callback function

An application-defined callback function used with the **CopyFileEx**, **MoveFileTransacted**, and **MoveFileWithProgress** functions. It is called when a portion of a copy or move operation is completed. The **LPPROGRESS_ROUTINE** type defines a pointer to this callback function. **CopyProgressRoutine** is a placeholder for the application-defined function name.

Syntax

```
C++
  DWORD CALLBACK CopyProgressRoutine(
             LARGE INTEGER TotalFileSize,
    In
    In
             LARGE INTEGER TotalBytesTransferred,
    _In_
             LARGE_INTEGER StreamSize,
             LARGE_INTEGER StreamBytesTransferred,
    _In_
    _In_
             DWORD
                            dwStreamNumber,
    _In_
             DWORD
                            dwCallbackReason,
                            hSourceFile,
    _In_
             HANDLE
                            hDestinationFile,
    _In_
             HANDLE
    In opt LPVOID
                            1pData
  );
  typedef DWORD (WINAPI *LPPROGRESS_ROUTINE)(
      _In_
               LARGE INTEGER TotalFileSize,
      _In_
               LARGE_INTEGER TotalBytesTransferred,
      _In_
               LARGE_INTEGER StreamSize,
      _In_
               LARGE_INTEGER StreamBytesTransferred,
      _In_
               DWORD
                              dwStreamNumber,
                              dwCallbackReason,
      _In_
               DWORD
      _In_
               HANDLE
                              hSourceFile,
               HANDLE
      In
                              hDestinationFile,
      _In_opt_ LPVOID
                              1pData
  );
```

Parameters

TotalFileSize [in]

The total size of the file, in bytes.

TotalBytesTransferred [in]

The total number of bytes transferred from the source file to the destination file since the copy operation began.

StreamSize [in]

The total size of the current file stream, in bytes.

StreamBytesTransferred [in]

The total number of bytes in the current stream that have been transferred from the source file to the destination file since the copy operation began.

dwStreamNumber [in]

A handle to the current stream. The first time **CopyProgressRoutine** is called, the stream number is 1.

dwCallbackReason [in]

The reason that **CopyProgressRoutine** was called. This parameter can be one of the following values.

Value	Meaning
CALLBACK_CHUN K_FINISHED 0x00000000	Another part of the data file was copied.
CALLBACK_STRE AM_SWITCH 0x00000001	Another stream was created and is about to be copied. This is the callback reason given when the callback routine is first invoked.

hSourceFile [in]

A handle to the source file.

hDestinationFile [in]

A handle to the destination file

lpData [in, optional]

Argument passed to **CopyProgressRoutine** by **CopyFileEx**, **MoveFileTransacted**, or **MoveFileWithProgress**.

Return value

The **CopyProgressRoutine** function should return one of the following values.

Return code/value	Description
PROGRESS_CANCEL 1	Cancel the copy operation and delete the destination file.
PROGRESS_CONTIN UE 0	Continue the copy operation.
PROGRESS_QUIET 3	Continue the copy operation, but stop invoking CopyProgressRoutine to report progress.
PROGRESS_STOP	Stop the copy operation. It can be restarted at a later time.

Remarks

An application can use this information to display a progress bar that shows the total number of bytes copied as a percent of the total file size.

Requirements

Minimum supported client	Windows XP [desktop apps only]
Minimum supported server	Windows Server 2003 [desktop apps only]
Header	WinBase.h (include Windows.h)

See also

CopyFileEx

File Management Functions MoveFileTransacted

MoveFileWithProgress

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