

How to copy multiple files into one

QUESTION

Remember DOS? We can combine multiple ASCII files to one by using the copy command like: copy file1 + file2 + file3 file4. That makes file4 become the sum of file1, file2 and file3. Does the *ShFileOperation* API support this feature or is there any other API support for this?

Answer 1

```
procedure TForm1.Button1Click(Sender: TObject);
var
  Stream1, Stream2: TFileStream;
begin
  Stream1 := TFileStream.Create('c:\file4', fmCreate or fmShareExclusive);
  try
    { first file }
    Stream2 := TFileStream.Create('c:\file1', fmOpenRead or fmShareDenyNone);
    try
      Stream1.CopyFrom(Stream2, Stream2.Size);
    finally
      Stream2.Free;
    end;
    { next file }
    Stream2 := TFileStream.Create('c:\file2', fmOpenRead or fmShareDenyNone);
    try
      Stream1.CopyFrom(Stream2, Stream2.Size);
    finally
      Stream2.Free;
    end;
    { and so on }
  finally
    Stream1.Free;
  end;
end;
```

Tip by Finn Tolderlund

Answer 2

```
function AppendFiles(Files: TStrings; const DestFile: string): integer;
var
  srcFS, destFS: TFileStream;
  i: integer;
  F: string;
begin
  result := 0;
  if (Files.Count > 0) and (DestFile <> '') then
  begin
    destFS := TFileStream.Create(DestFile, fmCreate or fmShareExclusive);
    try
      i := 0;
      while i < Files.Count do
      begin
        F := Files[i];
        Inc(i);
        if (CompareText(F, DestFile) <> 0) and (F <> '') then
        begin
          srcFS := TFileStream.Create(F, fmOpenRead or fmShareDenyWrite);
          try
            if destFS.CopyFrom(srcFS, 0) = srcFS.Size then
              Inc(result);
          finally
            srcFS.Free;
          end;
        end;
      end;
    finally
      destFS.Free;
    end;
  end;
end;
```

```
        end;  
    end  
    else  
    begin  
        { error }  
    end;  
end;  
finally  
    destFS.Free;  
end;  
end;  
end;
```

Tip by Chris Willig

Original resource:	The Delphi Pool
Author:	Various
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