

Convert between long and short file names

Here's a way to convert between short 8.3 DOS file names and long file names.

First function will convert long file names to the 8.3 format:

```
uses
  Windows, SysUtils;

function GetShortName(sLongName: string): string;
var
  sShortName      : string;
  nShortNameLen   : integer;
begin
  SetLength(sShortName, MAX_PATH);
  nShortNameLen := GetShortPathName(
    PChar(sLongName), PChar(sShortName), MAX_PATH - 1
  );
  if (0 = nShortNameLen) then
    begin
      // handle errors...
    end;
  SetLength(sShortName, nShortNameLen);
  Result := sShortName;
end;
```

Now a function to convert a short file name into a long file name:

```
uses
  Windows, SysUtils;

function __GetLongName(sShortName: string; var bError : boolean): string;
var
  bAddSlash : boolean;
  SearchRec : TSearchRec;
  nStrLen   : integer;
begin
  bError      := False;
  Result      := sShortName;
  nStrLen     := Length(sShortName);
  bAddSlash   := False;

  if ('\ ' = sShortName[nStrLen]) then
    begin
      bAddSlash := True;
      SetLength(sShortName, nStrLen - 1);
      dec(nStrLen);
    end;

  if (nStrLen - Length(ExtractFileDrive(sShortName))) > 0 then
    begin
      if 0 = FindFirst(sShortName, faAnyFile, SearchRec) then
        begin
          Result := ExtractFilePath(sShortName) + SearchRec.Name;
          if bAddSlash then
            begin
              Result := Result + '\ ';
            end;
        end
      else
        begin
          // handle errors...
          bError := True;
        end;
      FindClose(SearchRec);
    end;
end;

function GetLongName(sShortName: string): string;
var
  s      : string;
```

```

p      : integer;
bError : boolean;
begin
  Result := sShortName;

  s := '';
  p := Pos('\', sShortName);
  while p > 0 do
  begin
    s := __GetLongName(s + Copy(sShortName, 1, p), bError);
    Delete(sShortName, 1, p);
    p := Pos('\', sShortName);

    if bError then
      Exit;
  end;
  if '' <> sShortName then
  begin
    s := __GetLongName(s + sShortName, bError);
    if bError then
      Exit;
  end;
  Result := s;
end;

```

Let's give our functions a try:

```

procedure Test;
const
  csTest = 'C:\Program Files';
var
  sShort,
  sLong: string;
begin
  sShort := GetShortName(csTest);
  MessageDlg(
    'Short name for "' + csTest + '" is "' + sShort + '"',
    mtInformation, [mbOk], 0
  );
  sLong := GetLongName(sShort);
  MessageDlg(
    'Long name for "' + sShort + '" is "' + sLong + '"',
    mtInformation, [mbOk], 0
  );
end;

```

See also the *LongToShortFilePath* & *ShortToLongFilePath* routines in the *Code Snippets Database*.

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