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Date: Mon, 11 Aug 1997 19:03:42 -0700
To: submit@wotsit.demon.co.uk
From: Elvis <elvis@iccom.com>
Subject: I see you are looking for info on windows .LNK file format....
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It's been a while since I've messed with that, but I dug up the following source code. It has been so long that I can't remember if this was the file I got working, so someone should test it out (I don't have time). However, it basically decodes the windows .LNK file format to find out what it is a shortcut to, and determines if that is a directory (I was going to write a unix type In command using .LNK file formats....). There are 2 files here. One is a C version, the other is a C++ version.... Hope this helps....

-Donald Murray

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C version
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#include <windows.h>
#include <windowsx.h>
#i ncl ude <obj base. h>
#include <shlobj.h>
#include <stdio.h>
#include <i ni tgui d. h>
#include <string.h>
main(int ac, char *av[])
    IShellLink *psl;
   HRESULT hres;
   WIN32_FIND_DATA wfd;
   char szGotPath[MAX_PATH];
   IPersistFile *ppf;
   if (ac!= 2)
       printf("Syntax: In <pathname>\n");
       return 0;
   hres = Colnitialize(NULL);
   if (!SUCCEEDED(hres))
       printf("Could not open the COM library\n");
   hres = CoCreateInstance(&CLSID_ShellLink, NULL, CLSCTX_INPROC_SERVER,
                               &IID_IShellLink, (LPV0ID *)&psl);
   if (SUCCEEDED(hres))
       hres = psI ->IpVtbI ->QueryInterface(psI, &IID_IPersistFile, &ppf);
       if (SUCCEEDED(hres))
           WORD wsz[MAX_PATH];
           MultiByteToWideChar(CP_ACP, 0, av[1], -1, wsz, MAX_PATH);
           hres = ppf->I pVtbI ->Load(ppf, wsz, STGM_READ);
           if (SUCCEEDED(hres))
               hres = psl -> l pVtbl -> Resol ve(psl, 0, SLR_ANY_MATCH);
               if (SUCCEEDED(hres))
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LNK. TXT
                   strcpy(szGotPath, av[1]);
                   \label{eq:hres}  \mbox{hres = psI ->I pVtbI ->GetPath(psI, szGotPath, MAX_PATH, $$ (WIN32_FIND_DATA *)&wfd, SLGP_SHORTPATH );}
                   if (!SUCCEEDED(hres))
                        printf("GetPath failed!\n");
                   printf("This points to %s\n", wfd.cFileName);
                   if (wfd.dwFileAttributes & FILE_ATTRIBUTE_DIRECTORY)
                        printf("This is a directory\n");
           el se
               printf("IPersistFile Load Error\n");
           ppf->I pVtbl ->Rel ease(ppf);
           printf("QueryInterface Error\n");
       psl -> l pVtbl -> Rel ease(psl);
       printf("CoCreateInstance Error - hres = %08x\n", hres);
   return 0;
C++ version
#include <windowsx.h>
#i ncl ude <obj base. h>
#include <shlobj.h>
#include <stdio. h>
#include <i ni tgui d. h>
#include <stdlib.h>
#include <io.h>
#include <string.h>
// This program should print out whether the file is a link and where it
// points to and whether it is a directory or not.
main(int ac, char *av[])
    if (ac!= 2)
        printf("Syntax: In <pathname>\n");
        return 0;
    IShellLink *psl;
                                                  // pointer to IShellLink i/f
    HRESULT hres;
    WIN32_FIND_DATA wfd;
    char szGotPath[MAX_PATH];
    // Get pointer to the IShellLink interface.
    hres = CoCreateInstance(CLSID_ShellLink, NULL, CLSCTX_INPROC_SERVER,
                                 IID_IShellLink, (LPV0ID *)&psl);
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LNK. TXT
if (SUCCEEDED(hres))
    // Get pointer to the IPersistFile interface.
    IPersistFile *ppf;
    hres = psl ->QueryInterface(IID_IPersistFile, (LPVOID *)&ppf);
    if (SUCCEEDED(hres))
        WORD wsz[MAX_PATH];
        // Ensure string is Unicode.
        MultiByteToWideChar(CP_ACP, 0, av[1], -1, wsz, MAX_PATH);
        // Load the shell link
        hres = ppf->Load(wsz, STGM_READ);
        if (SUCCEEDED(hres))
            // Resolve the link.
            hres = psI ->Resol ve(0, SLR_ANY_MATCH);
            // Using 0 instead -| of hWnd, as hWnd is only used if // interface needs to prompt for more information. Should use
            // hWnd from current console in the long run.
            if (SUCCEEDED(hres))
                strcpy(szGotPath, av[1]);
                if (!SUCCEEDED(hres))
                    printf("GetPath failed!\n");
                printf("This points to %s\n", wfd.cFileName);
                if (wfd.dwFileAttributes & FILE_ATTRIBUTE_DIRECTORY)
                    printf("This is a directory\n");
        el se
            printf("IPersistFile Load Error\n");
        ppf->Rel ease();
        printf("QueryInterface Error\n");
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printf("CoCreateInstance Error - hres = %08x\n", hres);

psl ->Rel ease();

return 0;