

```

/*****
/*
/*----- G E T E X E . C -----*/
/* Task      : Command line utility for outputting the type of an EXE */
/*      file                                     */
/*-----*/
/* Authors    : Michael Tischer and Bruno Jennrich */
/* developed on : 09/28/1995 */
/* last update  : 09/28/1995 */
/*****
#include <windows.h>
#include <shlobj.h>
#include <stdio.h>

/*****
/* GetExeType : Gets the type of an Exe file */
/*-----*/
/* Parameters:  pFileName - Path and name of Exe file */
/* Return value : Type of Exe file in plain text */
/*****
LPSTR GetExeType( LPSTR pFileName )
{
    DWORD dwExeType;
    SHFILEINFO sfi;
    static char ExeType[ 50 ]; // Receives ExeType plain text
    // static variables can be passed as a return value -----
    // However, be careful in multithreading environments! -----

    // Get EXE type via SHGetFileInfo -----
    dwExeType = SHGetFileInfo( pFileName,
                               0,
                               &sfi,
                               sizeof( sfi ),
                               SHGFI_EXETYPE );

    // Check LOWORD of return value -----
    switch( LOWORD( dwExeType ) )
    {
        case 'N' + 'E' * 256: // New Executables -----
            // Get version number and output -----
            wprintf( ExeType, "Win%d.%02d - New Executable",
                    ( int )HIBYTE( HIWORD( dwExeType ) ),
                    ( int )LOBYTE( HIWORD( dwExeType ) ) );
            break;
        case 'P' + 'E' * 256: // Portable Executables -----
            switch( HIWORD( dwExeType ) )
            {
                case 0:
                    wprintf( ExeType, "Win 32 Console Application" );
                    break;
                default:
                    wprintf( ExeType, "Win%d.%02d - Portable Executable",
                            ( int )HIBYTE( HIWORD( dwExeType ) ),
                            ( int )LOBYTE( HIWORD( dwExeType ) ) );
            }
            break;
        case 'M' + 'Z' * 256: // DOS Applications -----
            wprintf( ExeType, "DOS Application" );
            break;
    }
    return ExeType;
}

/*****
/* main - Start function */
/*-----*/
/* Parameters:  argc - Number of passed parameters */
/*      argv - Pointer to parameter */
/* Return value: none */
/*****
void main( int argc, char *argv[] )
{
    printf("GetExe - (c) MITI & BHJ\n" );
    if( argc == 2 )
        printf("%s\n", GetExeType( argv[1] ) );
    else printf(" Call: %s FileName", argv[0] );
}

```

