

MHOOK.ASM

```
.386
.model flat, stdcall
option casemap:none
include \masm32\include\windows.inc
include \masm32\include\user32.inc
include \masm32\include\kernel32.inc
include mhook.inc
includelib mhook.lib
includelib \masm32\lib\user32.lib
includelib \masm32\lib\kernel32.lib

wsprintfA proto C :DWORD, :DWORD, :VARARG
wsprintf TEXTEQU <wsprintfA>
.const
IDD_MAINDLG equ 101
IDC_CLASSNAME equ 1000
IDC_HANDLE equ 1001
IDC_WNDPROC equ 1002
IDC_HOOK equ 1004
IDC_EXIT equ 1005
WM_MOUSEHOOK equ WM_USER+6

DlgFunc PROTO :DWORD, :DWORD, :DWORD, :DWORD
.data
HookFlag dd FALSE
HookText db "&Hook", 0
UnhookText db "&Unhook", 0
template db "%lx", 0
.data?
hInstance dd ?
hHook dd ?
.code
start:
    invoke GetModuleHandle, NULL
    mov hInstance, eax
    invoke DialogBoxParam, hInstance, IDD_MAINDLG, NULL, addr DlgFunc, NULL
    invoke ExitProcess, NULL

DlgFunc proc hDlg:DWORD, uMsg:DWORD, wParam:DWORD, lParam:DWORD
    LOCAL hLib:DWORD
    LOCAL buffer[128]:byte
    LOCAL buffer1[128]:byte
```

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```
LOCAL rect:RECT
.if uMsg==WM_CLOSE
    .if HookFlag==TRUE
        invoke UninstallHook
    .endif
    invoke EndDialog,hDlg,NULL
.elseif uMsg==WM_INITDIALOG
    invoke GetWindowRect,hDlg,addr rect
    invoke SetWindowPos,hDlg,HWND_TOPMOST,rect.left,rect.top,rect.right,rect
.elseif uMsg==WM_MOUSEHOOK
    invoke GetDlgItemText,hDlg,IDC_HANDLE,addr buffer1,128
    invoke wsprintf,addr buffer,addr template,wParam
    invoke lstrcmpi,addr buffer,addr buffer1
    .if eax!=0
        invoke SetDlgItemText,hDlg,IDC_HANDLE,addr buffer
    .endif
    invoke GetDlgItemText,hDlg,IDC_CLASSNAME,addr buffer1,128
    invoke GetClassName,wParam,addr buffer,128
    invoke lstrcmpi,addr buffer,addr buffer1
    .if eax!=0
        invoke SetDlgItemText,hDlg,IDC_CLASSNAME,addr buffer
    .endif
    invoke GetDlgItemText,hDlg,IDC_WNDPROC,addr buffer1,128
    invoke GetClassLong,wParam,GCL_WNDPROC
    invoke wsprintf,addr buffer,addr template,eax
    invoke lstrcmpi,addr buffer,addr buffer1
    .if eax!=0
        invoke SetDlgItemText,hDlg,IDC_WNDPROC,addr buffer
    .endif
.elseif uMsg==WM_COMMAND
    .if lParam!=0
        mov eax,wParam
        mov edx,eax
        shr edx,16
        .if dx==BN_CLICKED
            .if ax==IDC_EXIT
                invoke SendMessage,hDlg,WM_CLOSE,0,0
            .else
                .if HookFlag==FALSE
                    invoke InstallHook,hDlg
                    .if eax!=NULL
                        mov HookFlag,TRUE
                    .endif
                .endif
            .endif
        .endif
    .endif
.endif
```