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; =====
; ATL2.asm
; Title: Pahor1.asm
; Author: Pahor.m @ April 2020
; Version: 1.0.0
; Purpose: Main Assembler of Play Flash Object.
; Dipersembahkan Untuk Hari Ulang Tahun ku yg KE-47
; =====

.386
.model flat, stdcall ;32 bit memory model
option casemap :none ;case sensitiv

include windows.inc
include user32.inc
include kernel32.inc
include comdlg32.inc
include Comctl32.inc
include shell32.inc
include advapi32.inc
include gdi32.inc
include shlwapi.inc
include D:\masm32\m32lib\masm32.inc

includelib user32.lib
includelib kernel32.lib
includelib comdlg32.lib
includelib Comctl32.lib
includelib shell32.lib
includelib advapi32.lib
includelib gdi32.lib
includelib shlwapi.lib
includelib D:\masm32\m32lib\masm32.lib

DlgProc      PROTO    :HWND, :UINT, :WPARAM, :LPARAM
PlayerWin     PROTO    :HWND
GAlloc        PROTO    :DWord, :DWORD
GMEMFree     PROTO    :DWord
Malloc        PROTO    :DWord, :DWORD
MemFree       PROTO    :DWord

Scall Macro Method:Req, Args:VarArg
    LOCAL   ArgList
    ArgList TEXTEQU <>

    IFNB <Args>
        FOR Arg,<Args>
            ArgList CATSTR <Arg>, <,>, ArgList
        ENDM
        ArgList SubStr ArgList, 1, @SizeStr(%ArgList) - 1
        ArgList CATSTR <!>, ArgList, <!>

        %FOR parameter,ArgList
            push parameter
        ENDM
    ENDIF

    Call Method
ENDM

Icall Macro pInterface:Req, Method:Req, Args:VarArg
    LOCAL   ArgList
    ArgList TEXTEQU <>

    IFNB <Args>
```

```
FOR Arg,<Args>
    ArgList CATSTR <Arg>,<,>,ArgList
ENDM
ArgList SubStr ArgList, 1, @SizeStr(%ArgList) - 1
ArgList CATSTR <!>,ArgList,<!>

%FOR parameter,ArgList
    push parameter
ENDM
ENDIF

mov eax,pInterface
push eax
mov eax,[eax]
Call [Eax].Method
; call     dword ptr[eax+Method]
ENDM

;IUnknown Methods
IUnknown Struct
    QueryInterface DWord ?
    AddRef        DWord ?
    Release        DWord ?
IUnknown Ends

include OFlash.inc

.const
IDD_DIALOG      equ 1000
######
.data
szDLL           db   "atl.dll",0
szAtlAxWinInit  db   "AtlAxWinInit",0      ; ATL Function
szAtlAxGetControl db   "AtlAxGetControl",0 ; ATL Function
szAtlAxWin       db   "AtlAxWin",0          ; ATL Window Class Name
szCLSID_Swf     db   "{D27CDB6E-AE6D-11CF-96B8-444553540000}",0 ; ShockwaveFlash ClassID
szCLSID_Calendar db   "{8E27C92B-1264-101C-8A2F-040224009C02}",0 ; Calendar ClassID
szCLSID_Sound    db   "{22D6F312-B0F6-11D0-94AB-0080C74C7E95}",0 ; Sound ClassID
szCLSID_Graphics db   "{369303C2-D7AC-11D0-89D5-00A0C90833E6}",0 ; Graphics ClassID

szFileName       db   "biohome2.swf",0 ; File target
szBksl           db   "\",0

IID_IFlash       siid_IIFlash ; from OFlash.inc

AtlAxWinInit     dd ? ;Pointer "AtlAxWinInit"
AtlAxGetControl  dd ? ;Pointer "AtlAxGetControl"

pIUnknown         dd ? ;Pointer IUnknown

pIFlash           dd ? ;Pointer IFlash

.data?
hInstance         dd ?
hPlayWin          dd ?
hLib              dd ?
Buffer            dd 512 dup (?)
hCurDir           db 512 dup (?)

#####
.code
start:

    invoke GetModuleHandle,NULL
    mov hInstance,eax

    invoke InitCommonControls
```

```
; Get Handle "atl.dll"
invoke LoadLibrary,offset szDLL
.if eax
    mov hLib,eax
    ; Get Pointer "AtlAxWinInit"
    invoke GetProcAddress,hLib,addr szAtlAxWinInit
    mov AtlAxWinInit, eax
    ; Get Pointer "AtlAxGetControl"
    invoke GetProcAddress,hLib,addr szAtlAxGetControl
    mov AtlAxGetControl, eax
    ; Execution Function "AtlAxWinInit" on ATL Initialition
    Scall AtlAxWinInit
    .if eax
        invoke DialogBoxParam,hInstance,IDD_DIALOG,NULL,addr DlgProc,NULL
    .endif
    Invoke FreeLibrary,hLib
.endif
invoke ExitProcess,0

;#####
DlgProc proc hWnd:HWND,uMsg:UINT,wParam:WPARAM,lParam:LPARAM

.if uMsg==WM_INITDIALOG
    invoke PlayerWin, hWnd

.elseif uMsg==WM_CLOSE
    invoke EndDialog, hWnd, 0

.else
    mov eax, FALSE
    ret
.endif
mov eax, TRUE
ret
DlgProc endp

PlayerWin PROC hWnd:DWORD
    Local lpWideCharStr[512*2]:Byte

    ; Init Directory
    invoke GetCurrentDirectory,sizeof hCurDir,addr hCurDir
    invoke lstrcat,addr hCurDir,addr szBksl
    invoke lstrcat,addr hCurDir,addr szFileName ; nama file tggil rubah

    ;View Flahsh Object
    invoke CreateWindowEx,0,addr szAtlAxWin, addr szCLSID_Swf, WS_CHILD or WS_VISIBLE,
                    0,0,435,299,hWnd,NULL,hInstance,NULL
    mov hPlayWin,eax

;menjalankan fungsi "AtlAxGetControl"(hWnd,pIUnknown)
Scall AtlAxGetControl, hPlayWin, offset pIUnknown
.if (eax == 0) && (pIUnknown != 0)
    ;Harus Menambahkan referensi interface dgn Pointer pIUnknown
    Icall pIUnknown, IUnknown.AddRef

    ;mengambil Pointer interface IFlash, inputkan IID_IFlash dan
    ;simpan outputnya di tempat pointer pIFlash
    ;INGAT! Harus mengetahui IID Interface nya, Bukan CLSID nya
    ;      dalam windows terdapat banyak sekali interface dan masing2
    ;      memiliki InterfaceID (IID)
    Icall pIUnknown, IUnknown.QueryInterface, offset IID_IFlash, offset pIFlash
    .if pIFlash
        ;Tahap 1 menggelar interface "IFlash"
        ;tambah referensi interface dgn Pointer pIFlash
        Icall pIFlash, IFlash.AddRef
```

```
;Tahap 2 pembebasan interface "IUnknown" sebab tdk digunakan lagi
;Bebaskan interface IUnknown dgn Pointer pIUnknown
Icall pIUnknown, IUnknown.Release

;Tahap 3 menggunakan fungsi2 metode interface "IFlash"
;Pada interface parameternya berlaku format2 khusus, contoh;
;- String: format tipe BString
;- Bool: format tipe VARIANT_FALSE/VARIANT_TRUE

;Memasukan Target Nama File "biohome2.swf" (BStr) yg juga memiliki EMBED Flash
Invoke MultiByteToWideChar, CP_ACP, 0, Addr hCurDir, -1, Addr lpWideCharStr, Size0
Invoke SysAllocString, Addr lpWideCharStr
Icall pIFlash, IFlash.put_Movie, eax
Icall pIFlash, IFlash.put_EMBEDMovie, eax
Invoke SysFreeString, Addr lpWideCharStr

;Menghilangkan Menu
Icall pIFlash, IFlash.put_Menu, VARIANT_FALSE

;Memainkan Flash
    Icall pIFlash, IFlash.Play
.endif
.endif
ret
PlayerWin endp

end start
```