

```
; =====
; 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 sensitive
```

```
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
GMalloc      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
    ENDF

    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_IFlash ; 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 Initiation
    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 tggl 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 ditempat 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
    .endif
.endif

```

```
;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 parameteranya 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, SizeO
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
```