```
1     %REM
2     Library CFunctionCalls
3     Description: C Api Wrapper sample lib for any OS
4  %END REM
5  Option Public
6  Option Declare
7
8
9
10 ' --- OS Consts ---
11 Const OS_WINDOWS = 1
12 Const OS_LINUX   = 2
13 Const OS_MAC     = 3
14
15 ' --- C functions declaration FOR ALL OSes ---
16 ' ----- windows
17 Declare Function NSFDbOpen_Windows Lib "nnotes.dll" Alias "NSFDbOpen"
   (ByVal dbName As String, hDb As Long) As Integer
18 Declare Function NSFDbClose_Windows Lib "nnotes.dll" Alias "NSFDbClose"
   (hDb As Long) As Integer
19 Declare Function NSFDbSpaceUsage_Windows Lib "nnotes.dll" Alias
   "NSFDbSpaceUsage" (ByVal hDB As Long, retAllocatedBytes As Long,
   retFreeBytes As Long) As Integer
20
21 ' ----- Linux
22 Declare Function NSFDbOpen_Linux Lib "libnotes.so" Alias "NSFDbOpen" (ByVal
   dbName As String, hDb As Long) As Integer
23 Declare Function NSFDbClose_Linux Lib "libnotes.so" Alias "NSFDbClose" (hDb
   As Long) As Integer
24 Declare Function NSFDbSpaceUsage_Linux Lib "libnotes.so" Alias
   "NSFDbSpaceUsage" (ByVal hDB As Long, retAllocatedBytes As Long,
   retFreeBytes As Long) As Integer
25
26 ' ----- MAC
27 Declare Function NSFDbOpen_Mac Lib "libnotes.dylib" Alias "NSFDbOpen"
```

```
(ByVal dbName As String, hDb As Long) As Integer
Declare Function NSFDbClose_Mac Lib "libnotes.dylib" Alias "NSFDbClose" (hDb As Long) As Integer
Declare Function NSFDbSpaceUsage_Mac Lib "libnotes.dylib" Alias "NSFDbSpaceUsage" (ByVal hDB As Long, retAllocatedBytes As Long, retFreeBytes As Long) As Integer

Function Dynamic_NSFDbSpaceUsage(ByVal hDB As Long, retAllocatedBytes As Long, retFreeBytes As Long) As Integer
    Select Case GetCurrentOS()
    Case OS_WINDOWS
        Dynamic_NSFDbSpaceUsage = NSFDbSpaceUsage_Windows(hDB, retAllocatedBytes, retFreeBytes)
    Case OS_LINUX
        Dynamic_NSFDbSpaceUsage = NSFDbSpaceUsage_Linux(hDB, retAllocatedBytes, retFreeBytes)
    Case OS_MAC
        Dynamic_NSFDbSpaceUsage = NSFDbSpaceUsage_Mac(hDB, retAllocatedBytes, retFreeBytes)
    End Select
End Function

' --- Dynamic C function calls (user-side) ---
Function Dynamic_NSFDbOpen(ByVal dbName As String, hDb As Long) As Integer
    Select Case GetCurrentOS()
    Case OS_WINDOWS
        Dynamic_NSFDbOpen = NSFDbOpen_Windows(dbName, hDb)
    Case OS_LINUX
        Dynamic_NSFDbOpen = NSFDbOpen_Linux(dbName, hDb)
    Case OS_MAC
        Dynamic_NSFDbOpen = NSFDbOpen_Mac(dbName, hDb)
    End Select
End Function

```

```
Function Dynamic_NSFDbClose(hDb As Long) As Integer
    Select Case GetCurrentOS()
    Case OS_WINDOWS
        Dynamic_NSFDbClose = NSFDbClose_Windows(hDb)
    Case OS_LINUX
        Dynamic_NSFDbClose = NSFDbClose_Linux(hDb)
    Case OS_MAC
        Dynamic_NSFDbClose = NSFDbClose_Mac(hDb)
    End Select
End Function

' --- OS Detection ---
Function GetCurrentOS() As Integer
    Dim osSession As New NotesSession
    Dim osname As string
    Static cachedOS As Integer
    If cachedOS <> 0 Then
        GetCurrentOS = cachedOS
        Exit Function
    End If


    osName = LCase$( osSession.Platform )

    Select Case True
        Case InStr(osName, "win") > 0
            cachedOS = OS_WINDOWS
        Case InStr(osName, "linux") > 0
            cachedOS = OS_LINUX
        Case InStr(osName, "mac") > 0
            cachedOS = OS_MAC
        Case Else
            Error 1001, "Non supported Operating System : " & osName
    End Select

```

```
89      GetCurrentOS = cachedOS
90  End Function
91
```