

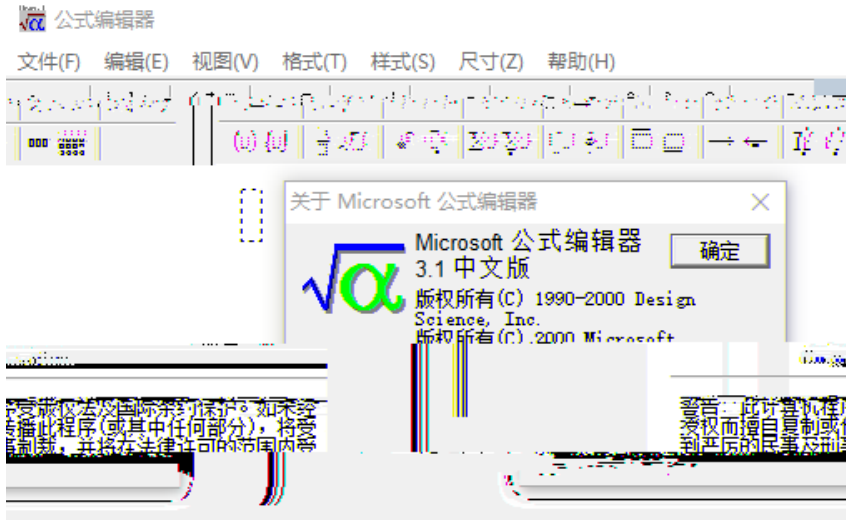
17 Office

POC

2017 11 14 11  
17 Office CVE-2017-11882 Office  
Office

11 19 POC

- Office 365
- Microsoft Office 2000
- Microsoft Office 2003
- Microsoft Office 2007 Service Pack 3
- Microsoft Office 2010 Service Pack 2
- Microsoft Office 2013 Service Pack 1
- Microsoft Office 2016



1 - Microsoft

EQNEDT32.EXE

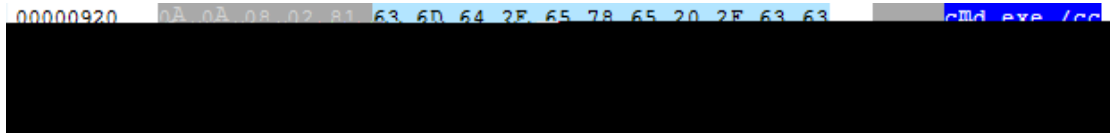
Office

Word

WINWORD.EXE, EXCEL.EXE

Office

EQNEDT32.EXE

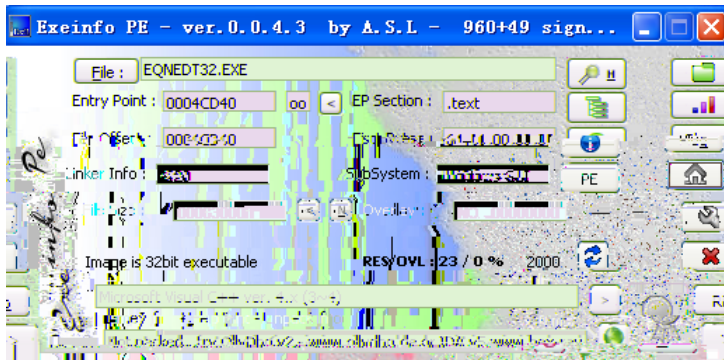


2 - CVE-2017-11882 POC

0patch

(2000 )

ASLR



3

Visual C++ 3~4

```

ProcessName: EQNEDT32
Source      : Running Process
Id         : 2976

DEP:
  Enable           : off
  Disable ATL     : off

ASLR:
  BottomUp        : off
  ForceRelocate   : off
  HighEntropy     : off
  DisallowStripped : off

StrictHandle:
  RaiseExceptionOnInvalid : off
  HandleExceptionsPermanently : off

System Call:
  DisallowWin32kSysCalls : off

ExtensionPoint:
  DisableExtensionPoints : off

DynamicCode:
  ProhibitDynamicCode : off
  AllowThreadOpt      : off
  AllowRemoteDowngrade : off

CFG:
  EnableCFG           : off
  EnableExportSuppression : off
  StrictMode         : off

BinarySignature:
  MicrosoftSignedOnly : off
  StoreSignedOnly     : off
  MitigationOptIn     : off

FontDisable:
  DisableNonSystemFonts : off
  AuditNonSystemFontLoading : off

ImageLoad:
  NoRemoteImages      : off
  NoLowMandatoryLabelImages : off
  PreferSystem32Images : off

```

4 - EQNEDT32.exe

1

RTF CVE-2017-11882 OLE  
 CVE-2017-0199 \objupdate

OLE

**\objupdate.** Forces an update to the object before displaying it. Note that this will override any values in the object's control words, but values should always be provided for those to maintain backward compatibility.

5 - RTF \objupdate

OLE Equation.3 3.0 CFB



0xC3BE
0x45 69
0x00000000
0x00682428
0x0069A87C
0x00000000

acintosh 0x01 Windows
0x01
athType 0x01
x01


```

.text:0041160F oStout+      = byte ptr -28h
.text:0041160F var_4        = dword ptr -4
.text:0041160F overflowbuf  = dword ptr 8
.text:0041160F arg_4       = dword ptr 0Ch
.text:0041160F arg_8       = dword ptr 10h
.text:0041160F
.text:0041160F      push    ebp
.text:00411610      mov     ebp, esp
.text:00411612      sub     esp, 88h
.text:00411618      push    ebx
.text:00411619      push    esi
.text:0041161A      push    edi
.text:0041161B      mov     word ptr [ebp+var_4], 0FFFFh
.text:00411621      mov     word ptr [ebp+var_38], 0FFFFh
.text:00411627      mov     edi, [ebp+overflowbuf]
.text:0041162A      mov     ecx, 0FFFFFFFh
.text:0041162F      sub     eax, eax
.text:00411631      repne scasb
.text:00411633      not     ecx
.text:00411635      lea    eax, [ecx-1]
.text:00411638      mov     [ebp+var_34], ax
.text:0041163C      mov     edi, [ebp+overflowbuf]
.text:0041163F      mov     ecx, 0FFFFFFFh
.text:00411644      sub     eax, eax
.text:00411646      repne scasb
.text:00411648      not     ecx
.text:0041164A      sub     edi, ecx
.text:0041164C      mov     eax, ecx
.text:0041164E      mov     edx, edi
.text:00411650      lea    edi, [ebp+dstbuf] ; 栈上大小36字节的空间
.text:00411653      mov     esi, edx
.text:00411655      shr     ecx, 2
.text:00411658      rep movsd ; 未经校验, 直接拷贝, 造成栈溢出
.text:0041165A      mov     ecx, eax
.text:0041165C      and     ecx, 3
.text:0041165F      rep movsb
.text:00411661      lea    eax, [ebp+dstbuf]
.text:00411664      push   eax ; lpSrcStr
.text:00411665      call   sub_451DE0
.text:0041166A      add     esp, 4
.text:0041166D      call   sub_420FA0
.text:00411672      mov     [ebp+var_2C], ax

```

10 -

0012F280	0012F2EC	
0012F284	77EFDfB1	返回到 GDI32.77EFDfB1 来自 GD
0012F288	930112FB	
0012F28C	0012F2A4	
0012F290	77EFDfC8	返回到 GDI32.77EFDfC8 来自 ntl
0012F294	77EFDfED	返回到 GDI32.77EFDfED 来自 GD
0012F298	77EFDfDA	返回到 GDI32.77EFDfDA 来自 GD
0012F29C	0012F660	
0012F2A0	0012FAB8	
0012F2A4	00000021	
0012F2A8	0000FFFF	
0012F2AC	0012F2F0	
0012F2B0	004115D8	返回到 EQNEDT32.004115D8 来自
0012F2B4	0012F430	
0012F2B8	00000000	
0012F2BC	0012F2CC	
0012F2C0	0012F660	

被覆盖前的地址

11 -

12 -

ASLR

RD /d 0x400

3