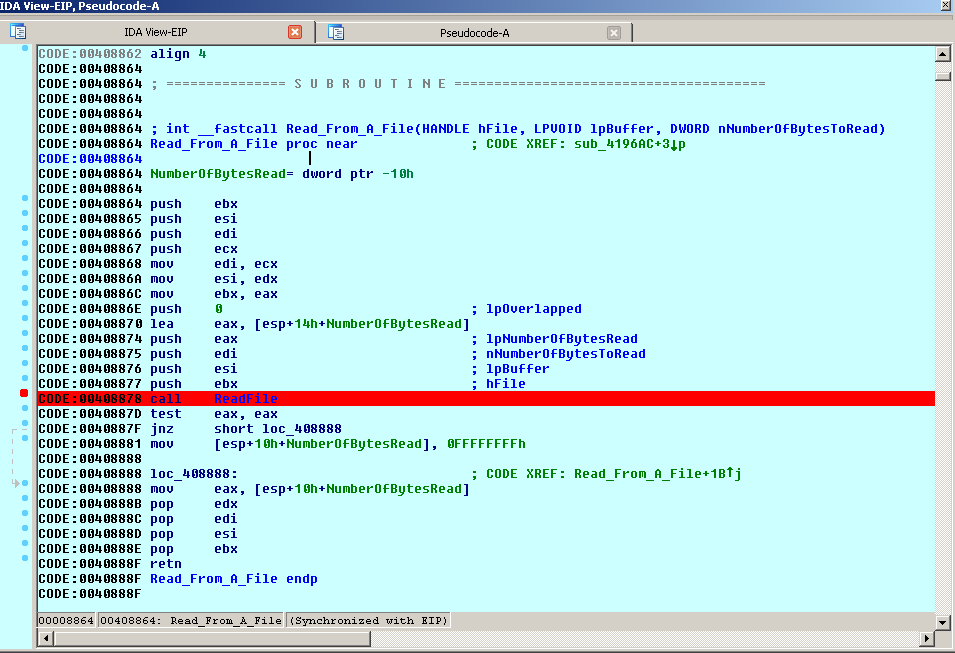
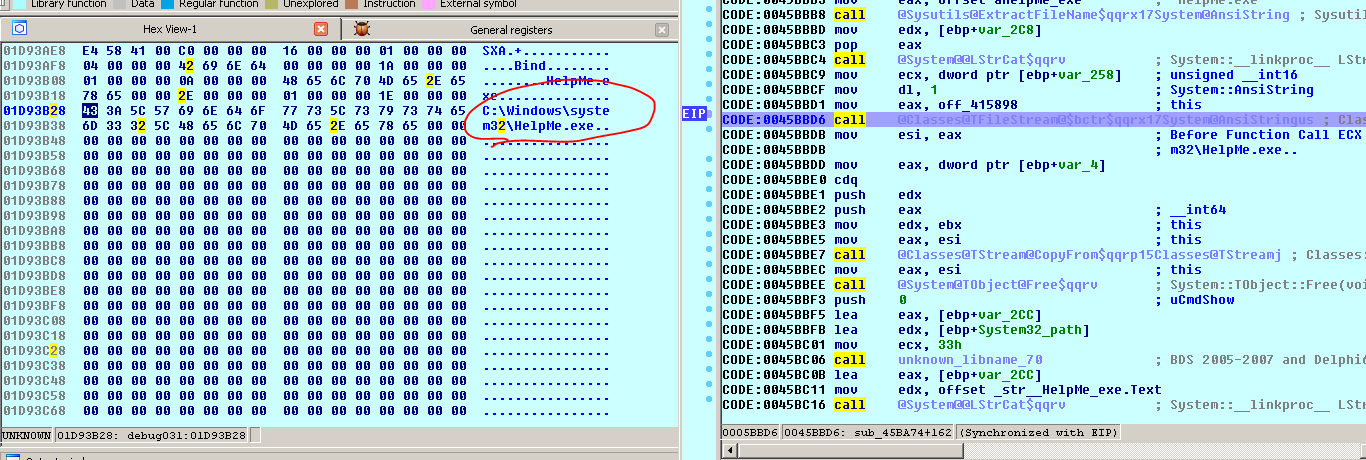
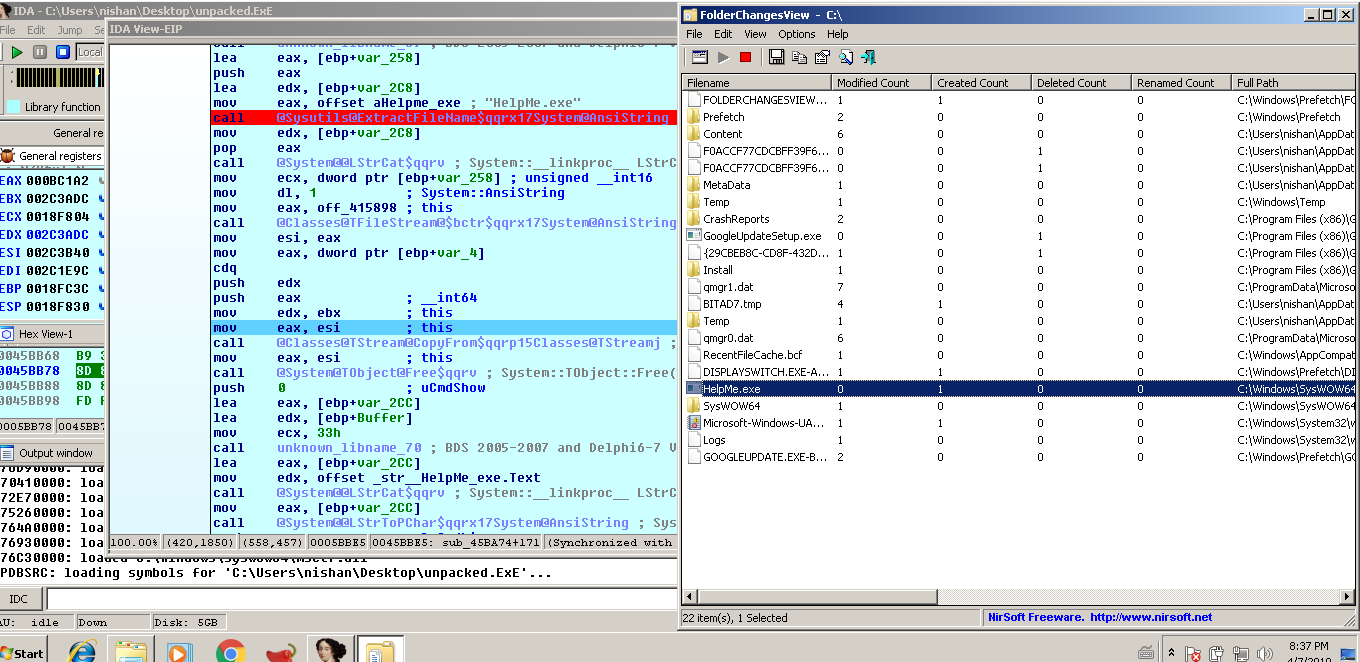


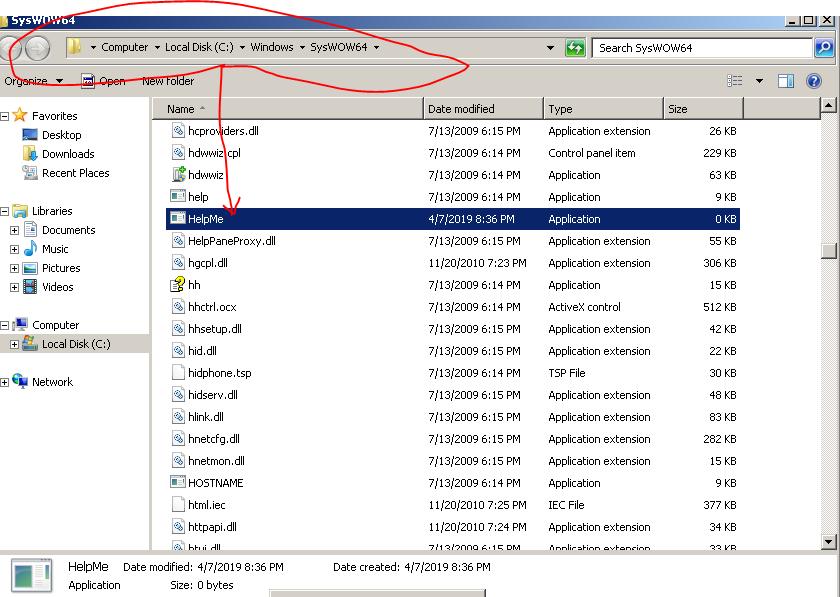
Now We know that the program tries to change registry key, and create file HelpMe.exe, so lets debug.



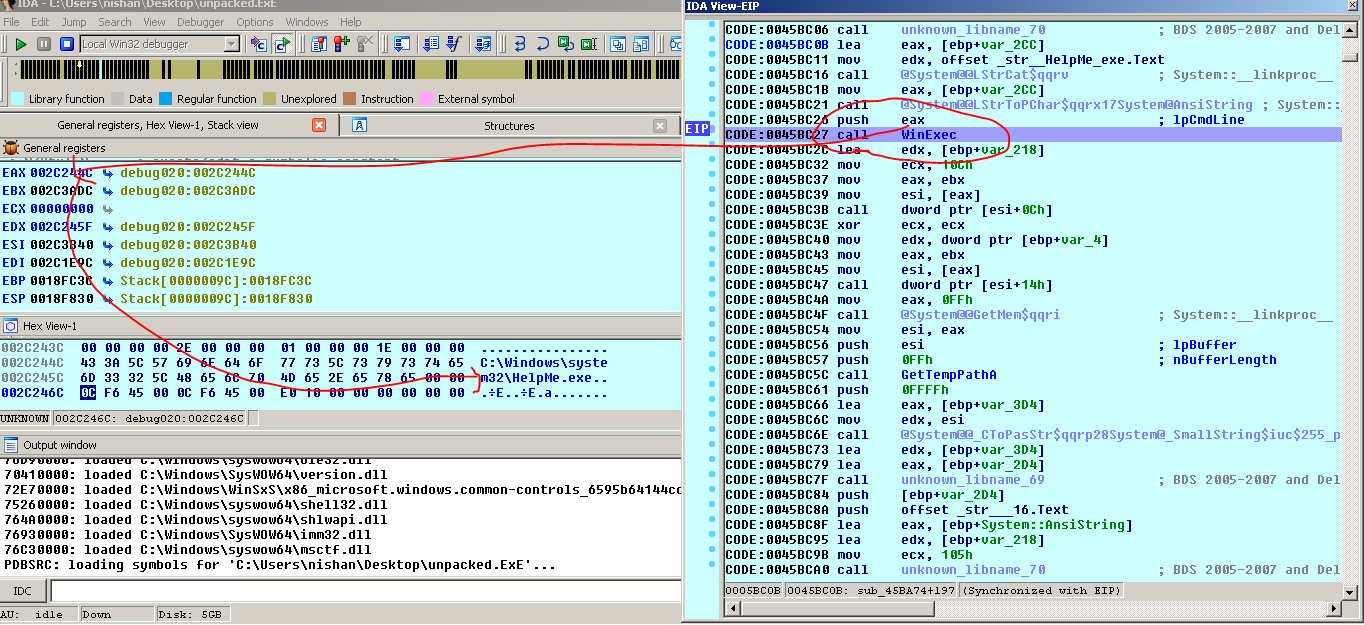
**Received Error, may be this is Access Deined one, lets run with admin priv.**



**But Since in 64 bit machine**



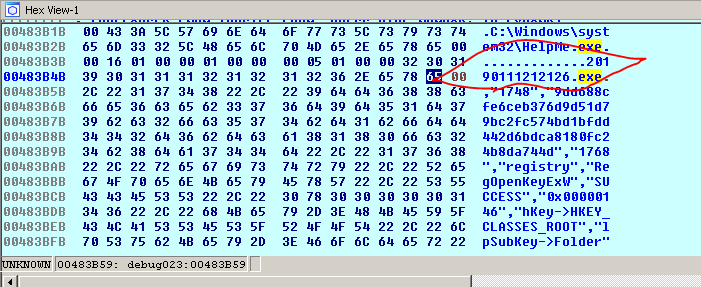
**After copying it runs it**



**Another File seems to be created, but extension too long error.**



**Change filename:**

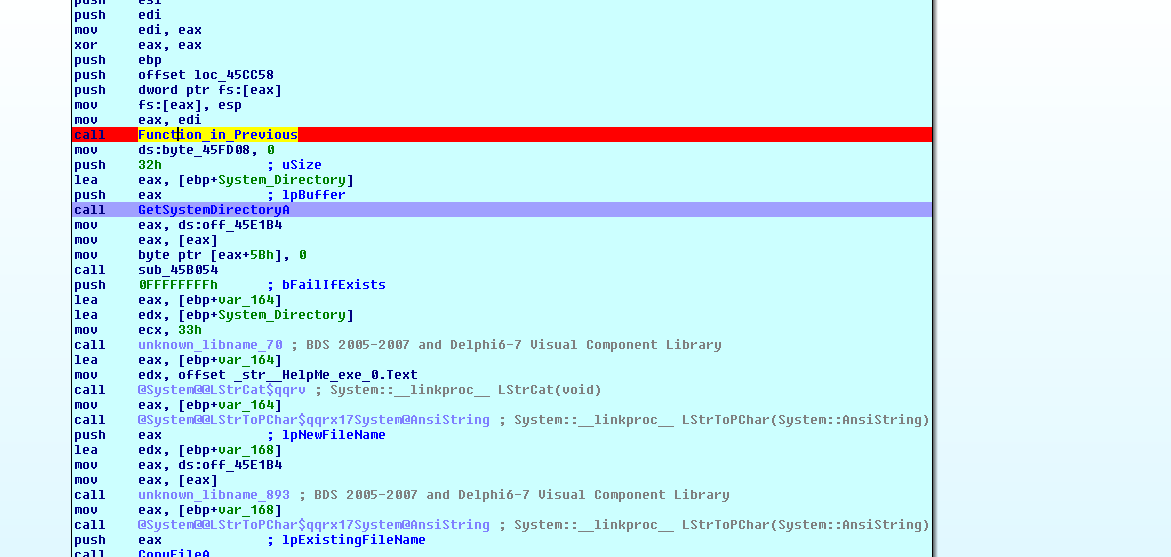


**But not an executable.**

**HelpMe.exe. Delphi compiled.**

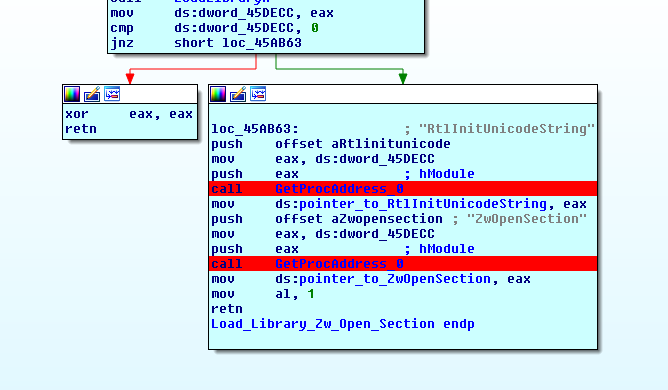
**Seems similar, WTF?, the same function does nothing and just exits,**

**Gets system directory**

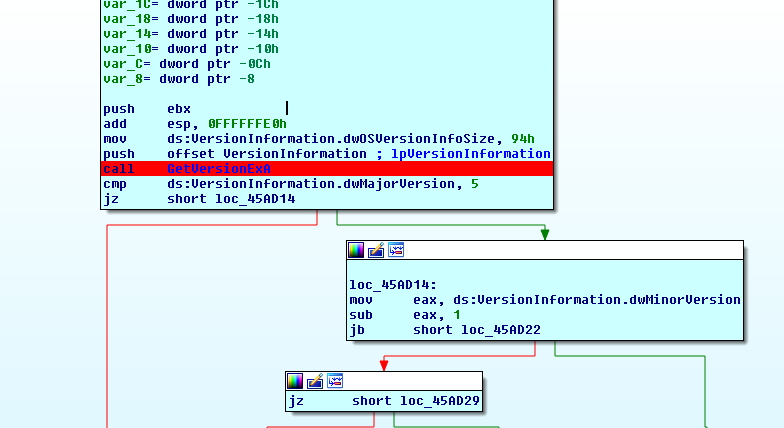


**sub\_45B054 calls function sub\_45AF60 which**

**calls 0045AB48 -> gets process address for RtlInitUnicodeString and ZwOpenSection**



**also calls 0045AF72 -> gets os version**



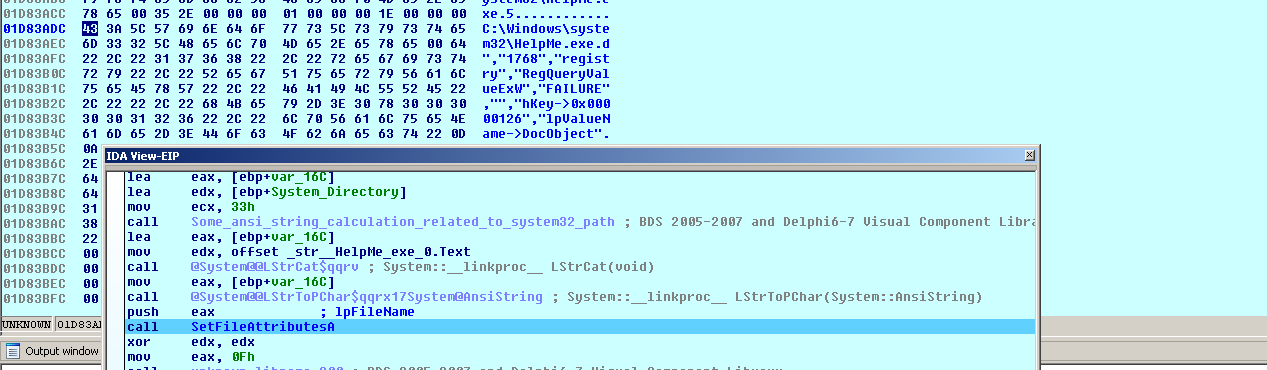
Compares if the os version is 5 i.e XP, in my case windows 7 i.e 6. Which does not match and just returns

A lot of calculation and eventually it called

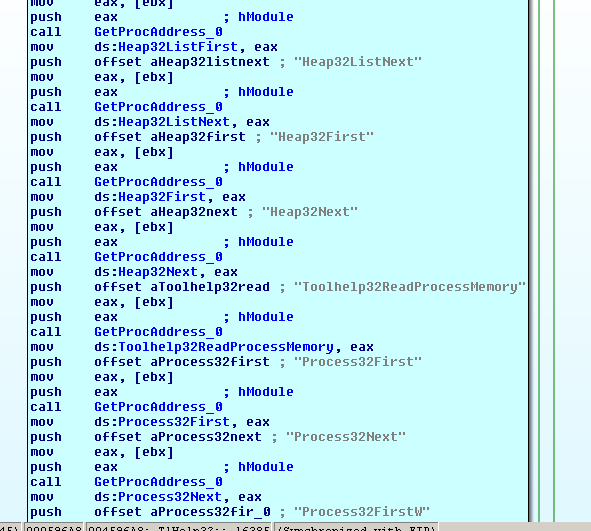
CopyFileA(C:\Users\nishan\Desktop\HelpMe.exe, C:\Windows\system32\HelpMe.exe)

Existing,new file

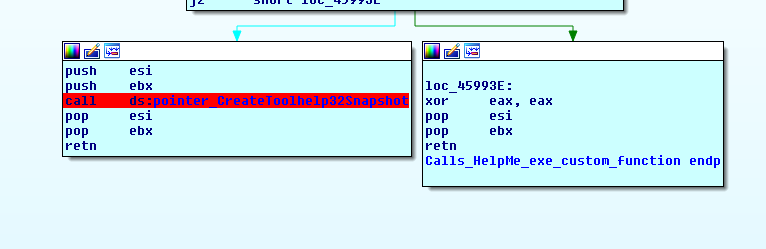
Again Changes Attribute of C:\Users\nishan\Desktop\HelpMe.exe

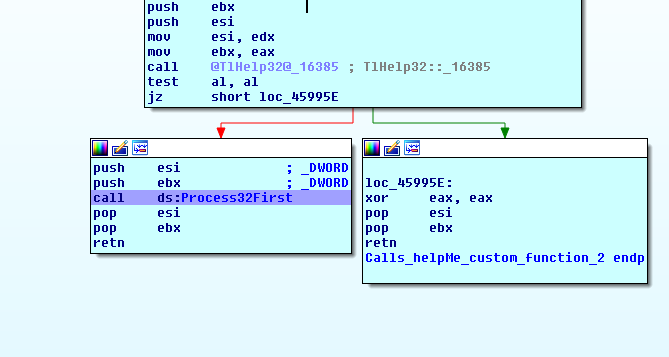


Function in 0045CABC and 0045CACB calls then same function TlHelp32::\_16385 which gets the process address of many functions manually.



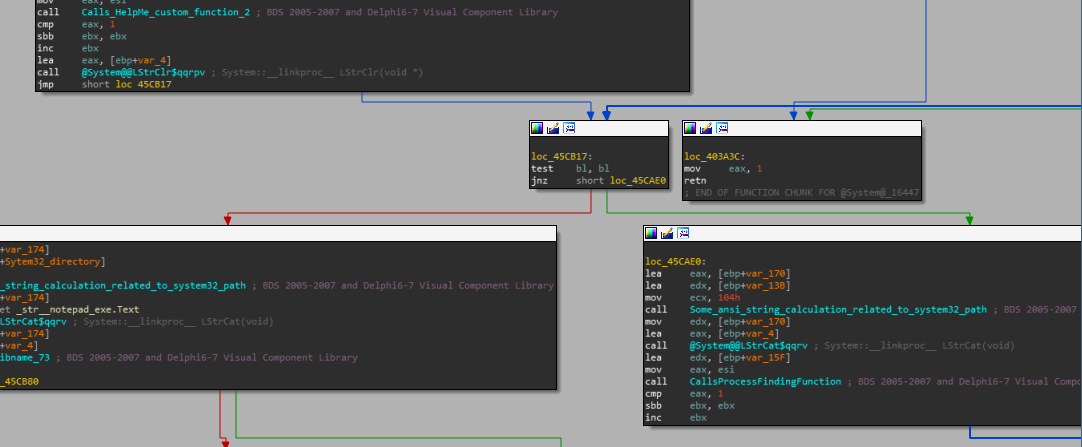
The malware then takes snapshot of current process and then retrieves information about the process.

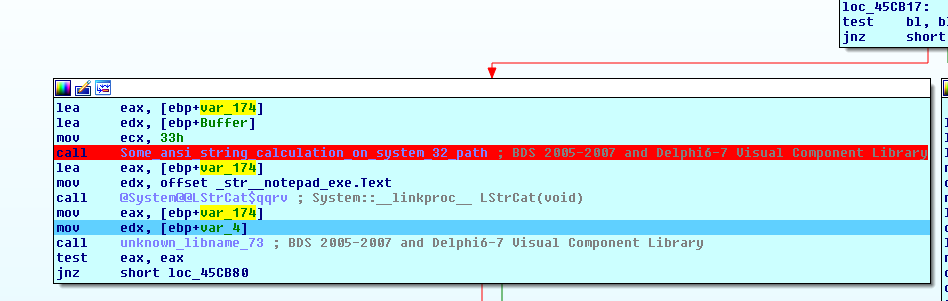


****

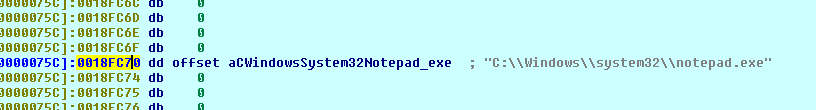
Then a call to lstrclr, clear the string.s = ‘’

The jump does not happen at first. And goes to left.

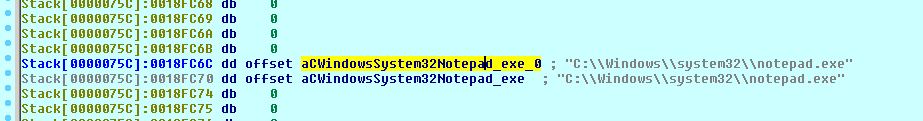




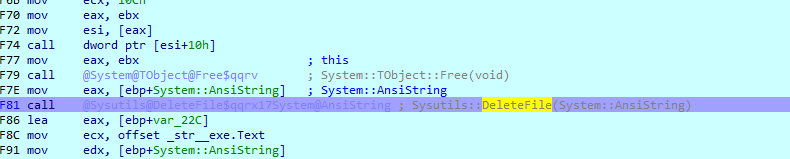
Generates the string

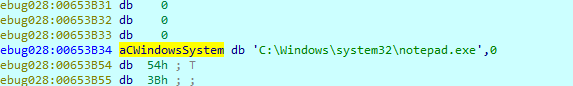


Similar operation happens and generates string, both same:

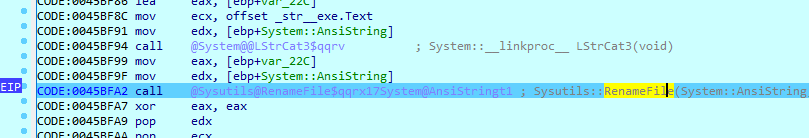


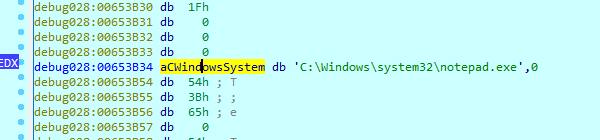
Some writefile operation, then deletes file notepad.exe

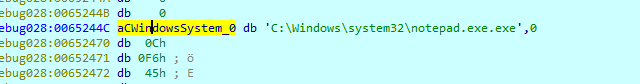




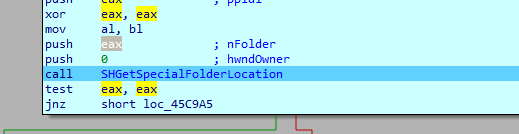
Renames notepad.exe to notepad.exe.exe in syswow64



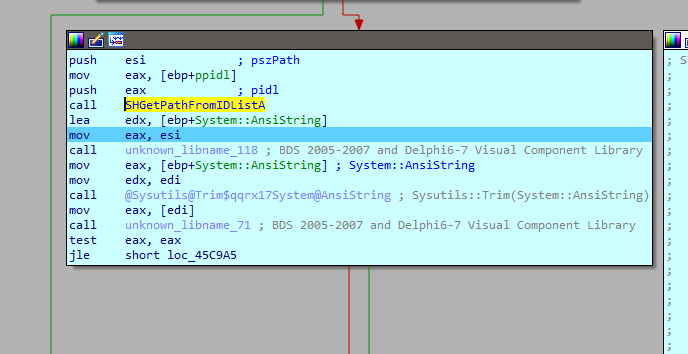


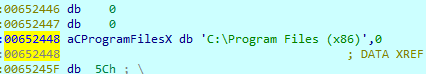


Then it uses the getspecialfolderlocation function to get the program file folder i.e CSIDL value 0x26

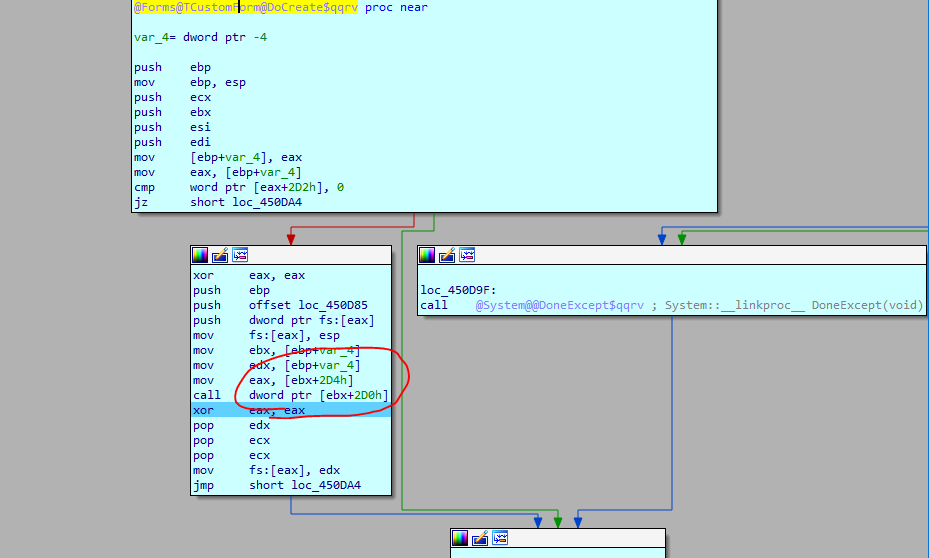


Then uses SHGetPathFromIDListA to actually get the path.



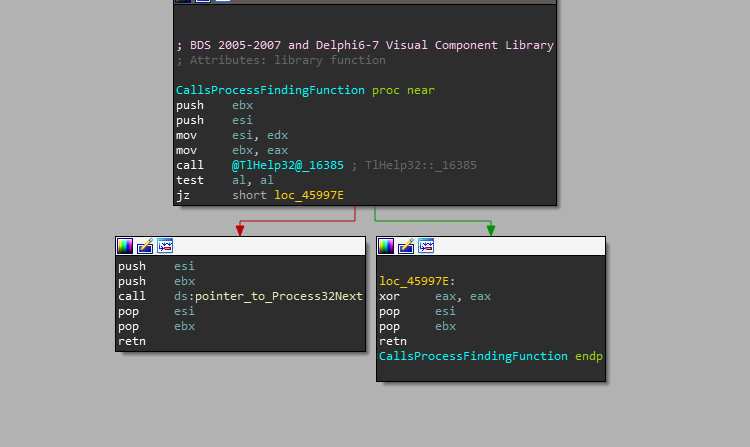


**Uses this to create ieexplorer.exe, the malware seems to be trying to delete the original binary, but is failing to do so. , and lastly it tried again with C:\Program Files (x86)\Outlook Express\msimn.exe, but since no outlook, errior.**



**Handles the error, exists, and finally calls run().**

**RUN() -> processMessage() infinite loop**



This is done multiple times, I think the main objective is to get the address of specific windows API function and then call it, The author seems to have chosen to call the windows API function address finder again and again, seems redundant.mistake?

## In the end fuken failure, the malware is a fuken failure, the entrypoint for delphi compiled binaries is \_TFrm\_Main\_FormCreate