SHA256: db601f84fd39ba6be26e7a6c0cc1a74da424698244d9a1861b2f9fb980ab7dea

This was an attempt to try out in unpacking BuerLoader, but in this case it does not look like I was successful in unpacking the file and I probably dumped the wrong binary after attaching to the child process.

Figures 1 and 2 below show a simple look at the file details such as the name and size as well as the alleged author and legal trademarks.

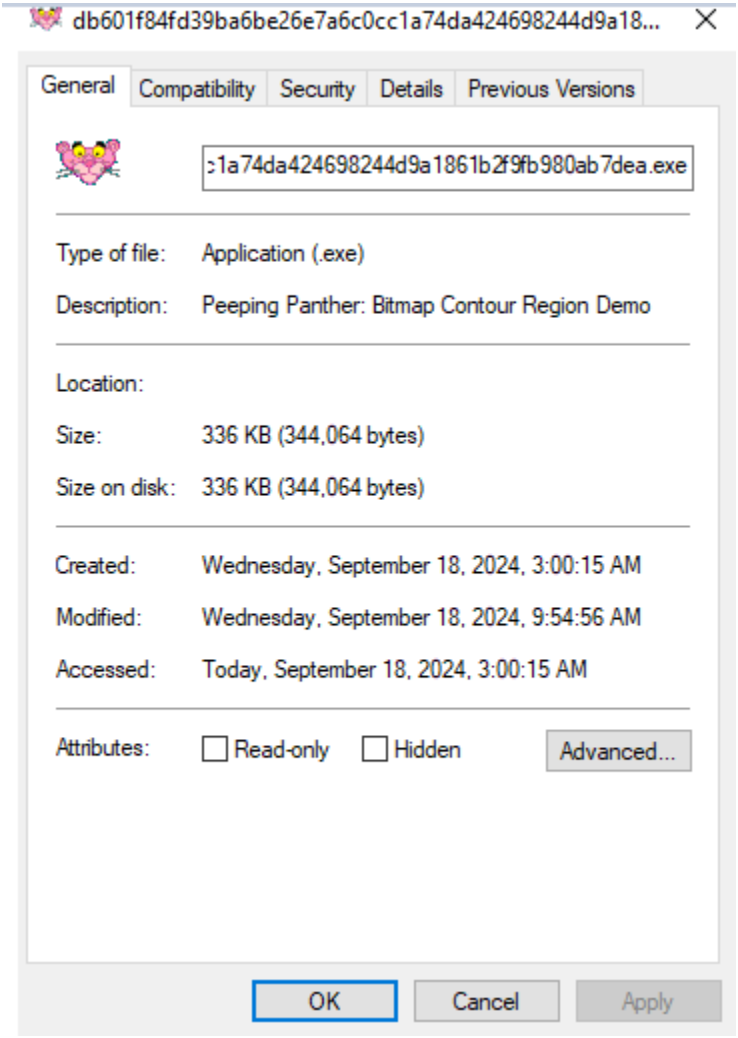


Figure 1. File Details

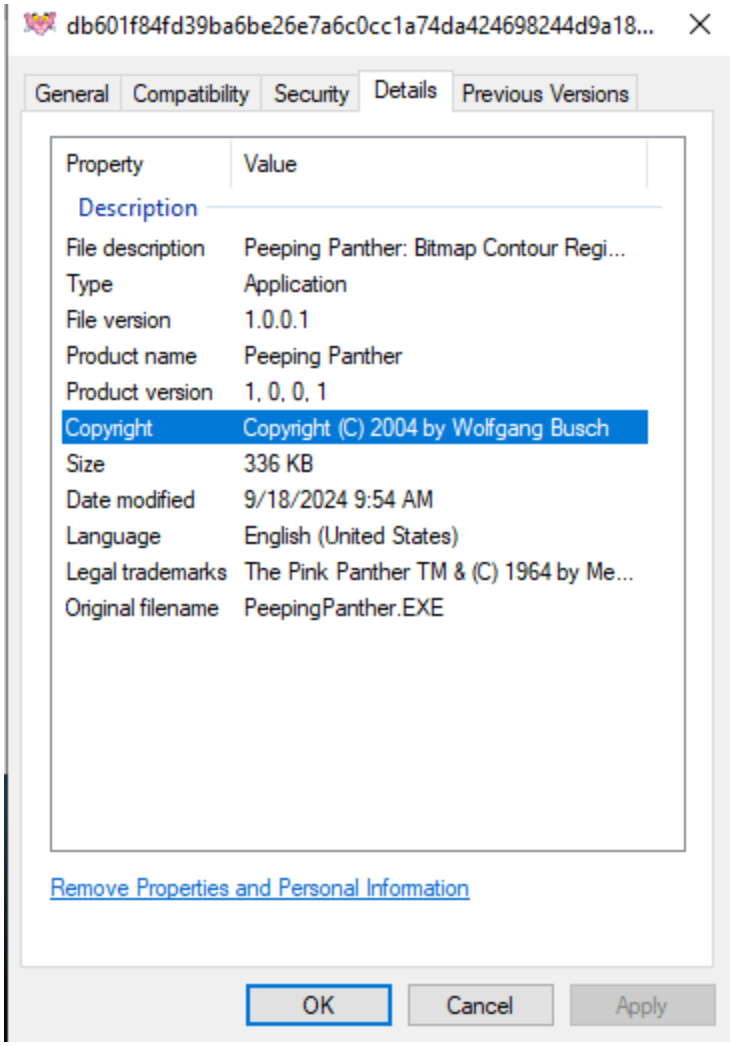


Figure 2. File Details

Opening the file in Detect-it-Easy to gain information on the the file type and compiler as well as the entropy to see if the payload is packer or not. The file is also opened on PE-Studio to look for additional details and flags for the imports or strings as well.

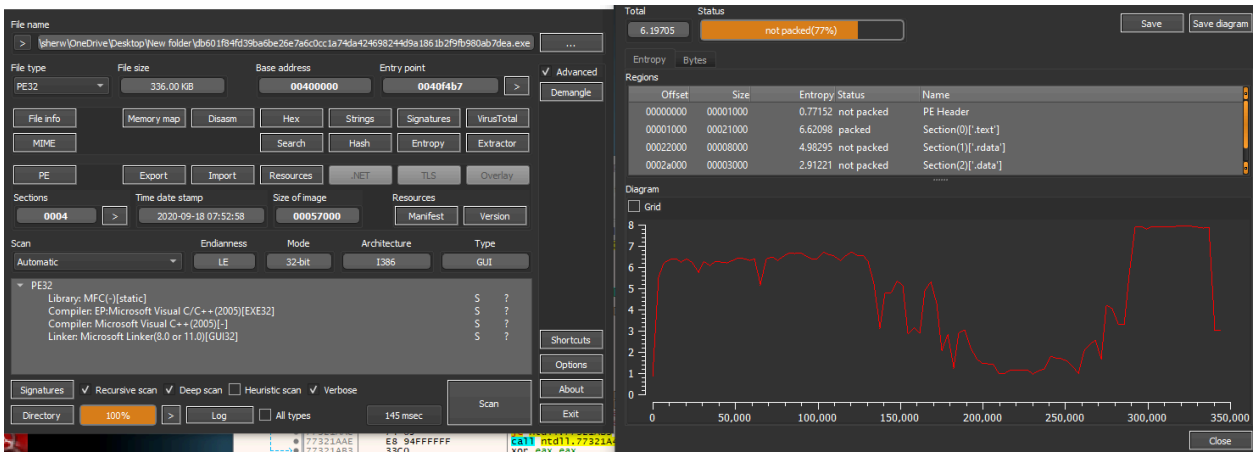


Figure 3. Detect it Easy

Initial set breakpoints on x32dbg.

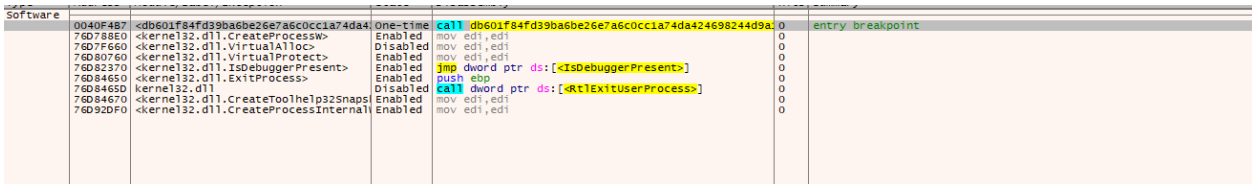


Figure 4. Breakpoints

Looking at the memory regions for readable and writable memory to see if I have already missed something while following VirtualAlloc calls.

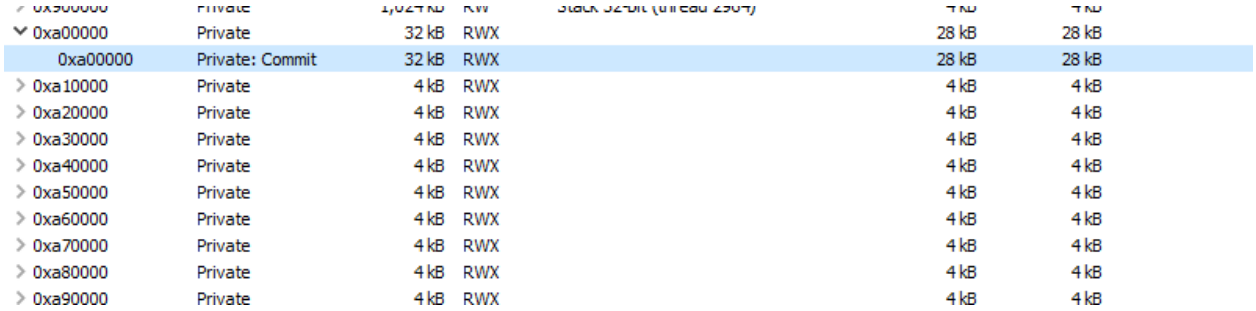


Figure 5. Looking at the Memory Regions

Following VirtualAlloc multiple times allocates data a multitude of times but it does not look like VirtualProtect was ever called. Instead it hits a CreateProcessW bp and shows that a file is going to be created on a folder in C:\Programdata.

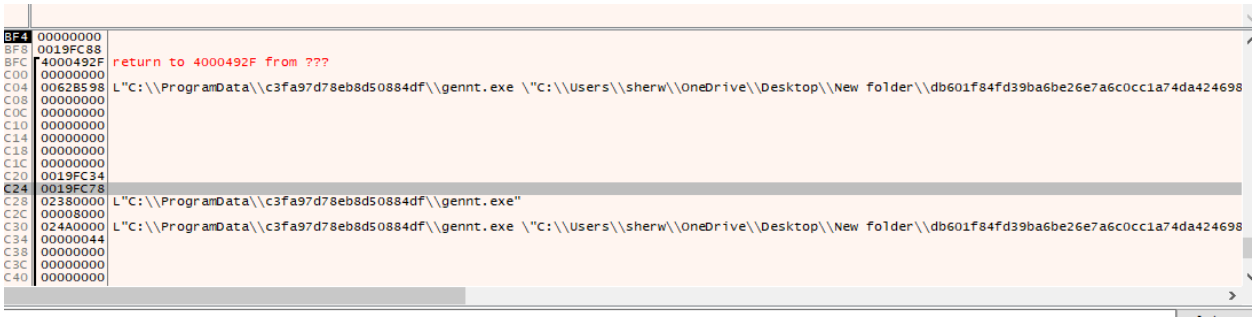
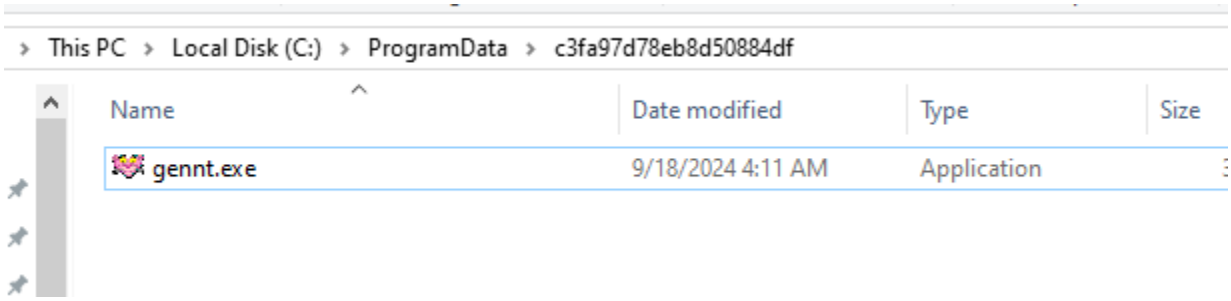


Figure 6. VirtualAlloc Calls

It looks like the process is going to create a new file called gennt.exe



Abnormal pop followed by a jmp. Following the data in this address shows suspicious content likely going to be injected into the new process.

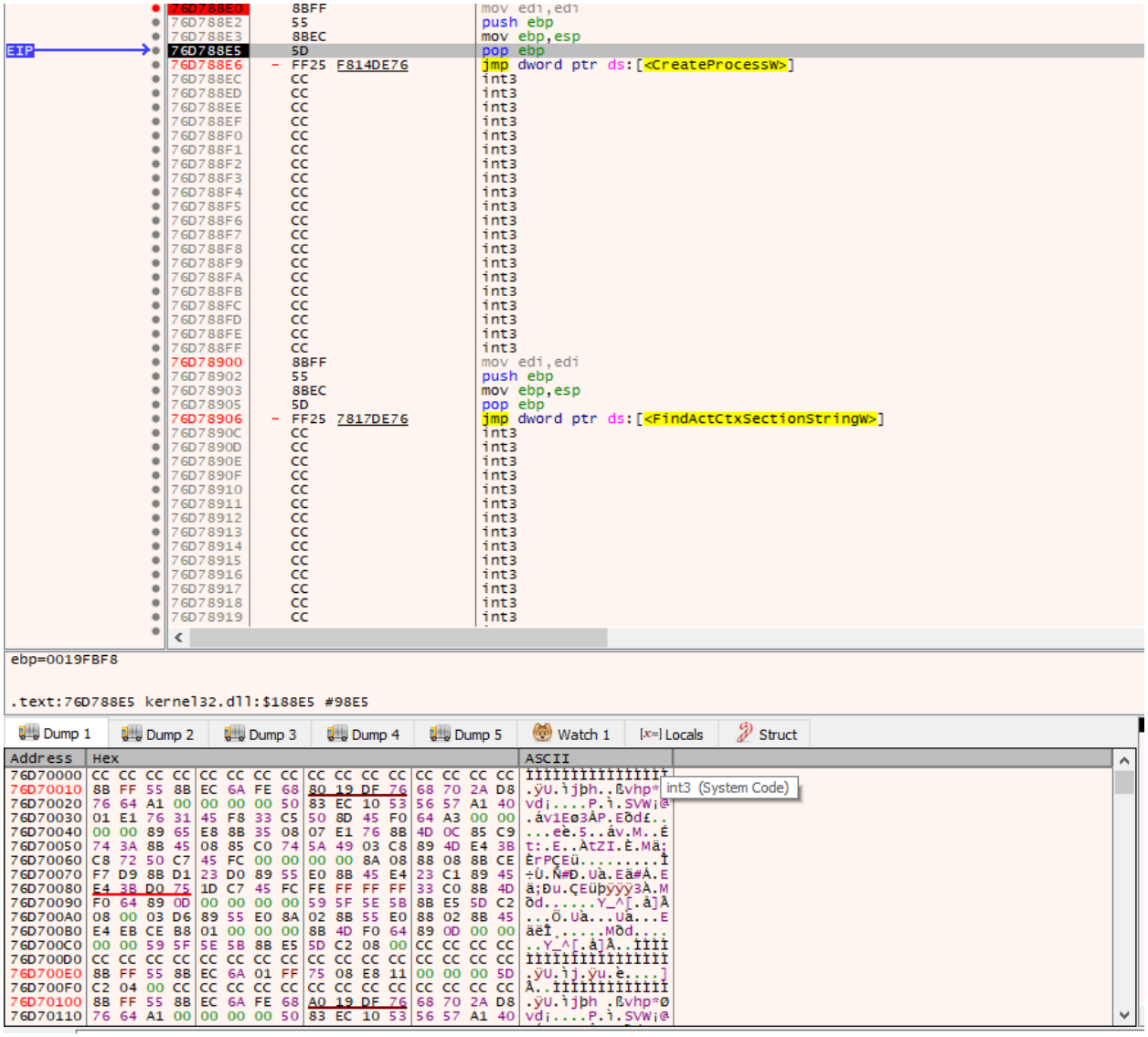


Figure 7. Data on the Abnormal Epilogue

As seen on Process Hacker the child process gentt.exe has been created. X32dbg is then attached to this process for further analysis of the behavior of this child process.

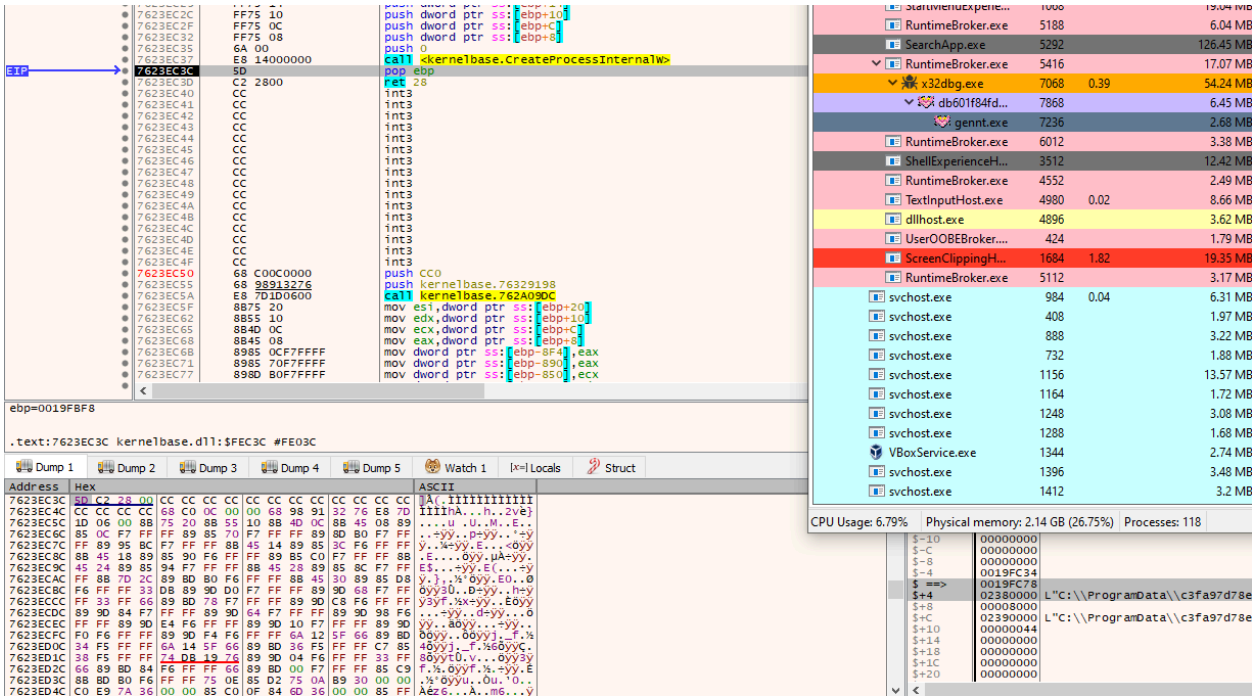


Figure 8. Child Process Created.

Following VirtualAlloc and VirtualProtect breakpoints on the newly created process shows it allocating memory on a RW memory address as of now .

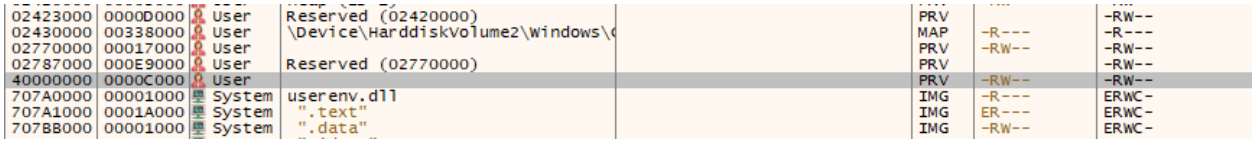


Figure 9. Memory Regions for the Child Process.

The child process then hits a CreateProcessW breakpoint but this time the target process is now Powershell and puts in a command to exclude the folder from Defender's scanning.

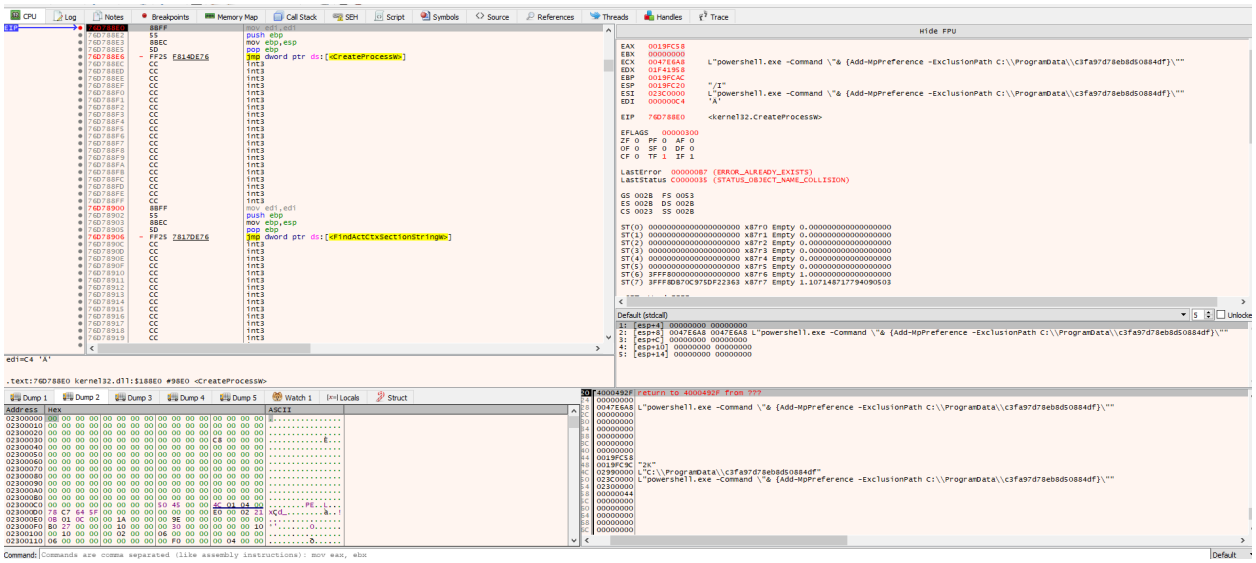


Figure 10. Powershell

Dumping Gennt.exe and fixing section headers with PE-Bear. This binary has a few different exports from the original file but it does not yet look like that I was successful in this attempt and that I did not dump from the right place.

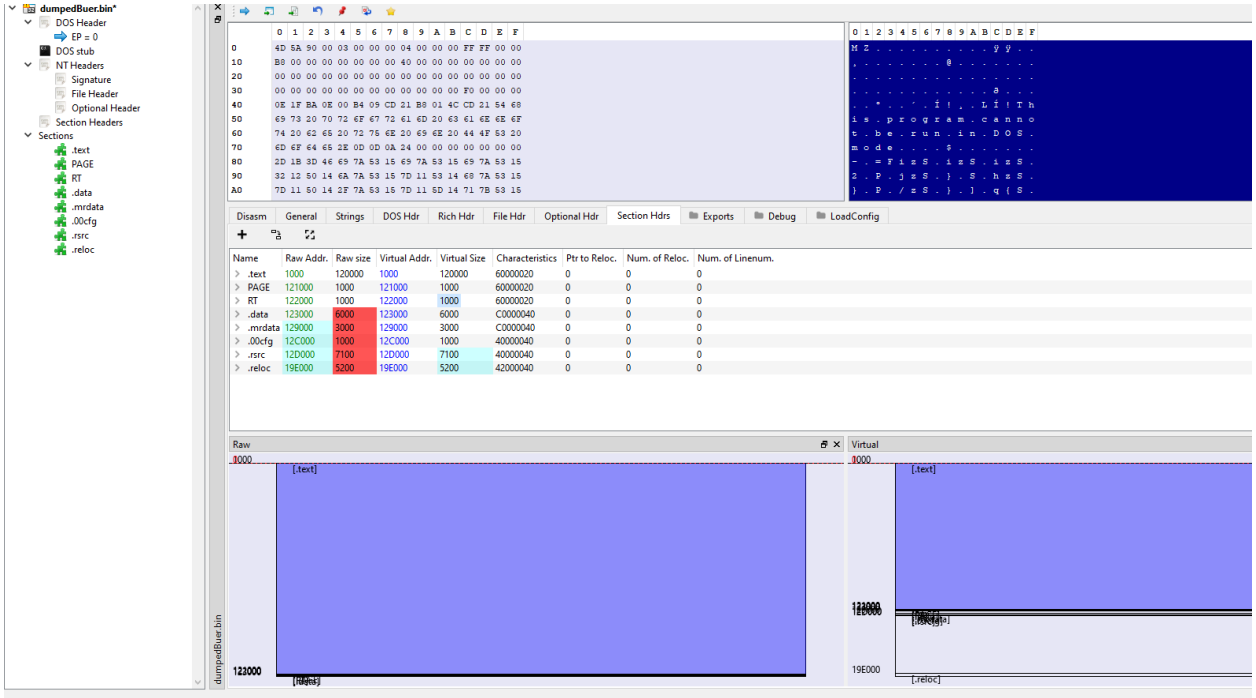


Figure 11. Fixing the IAT