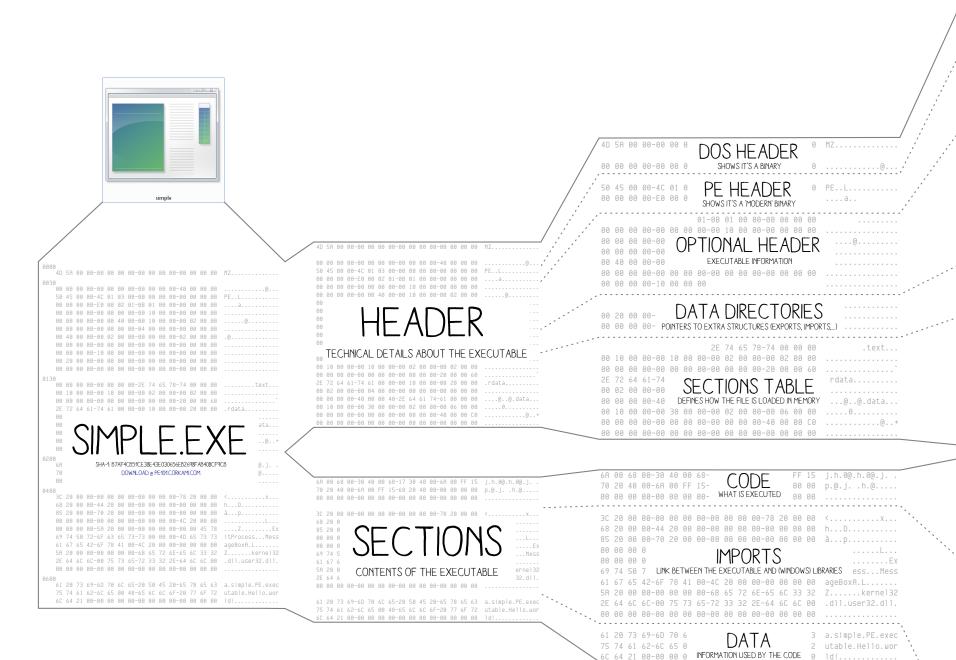
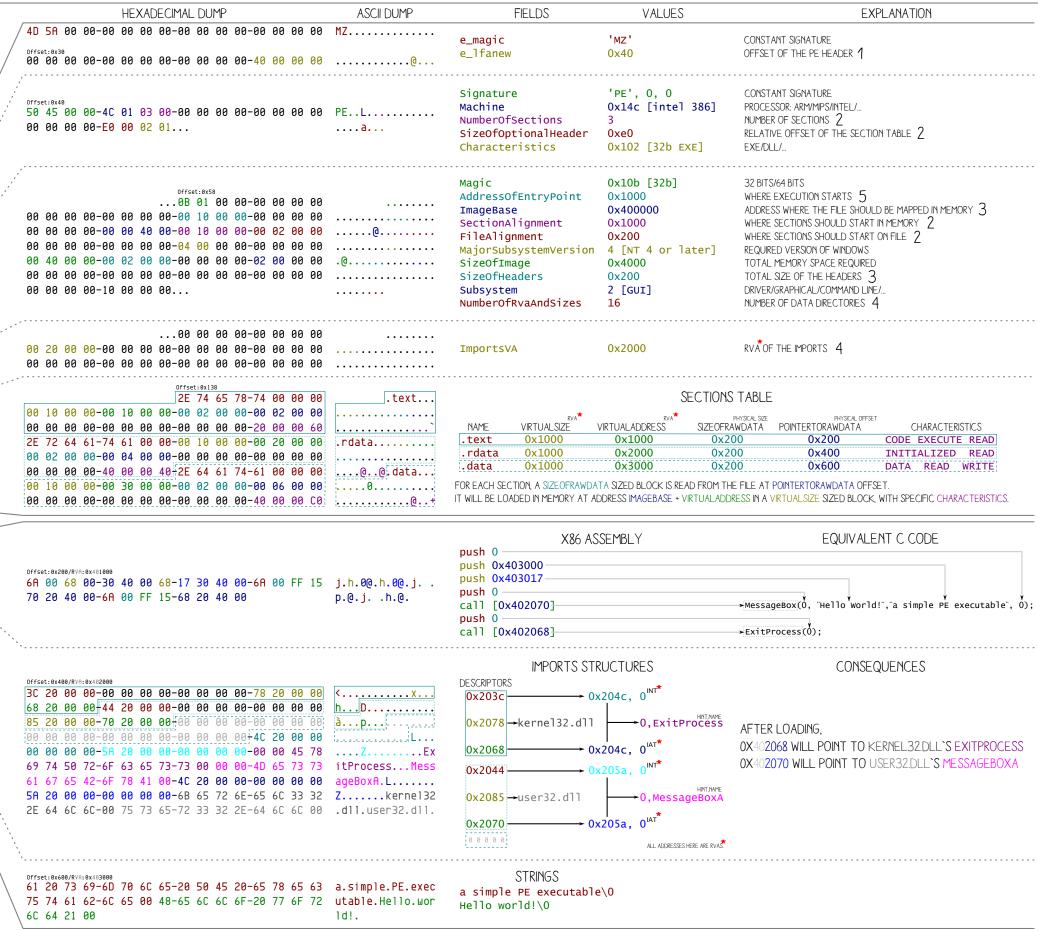
PE 101 a windows executable walk-through YZL, STH DECEMBER 2072 CREATIVE COMPONS 30 BY

ANGE ALBERTINI CORKAMI.COM





THIS IS THE WHOLE FILE, HOWEVER, MOST PE FILES CONTAIN MORE ELEMENTS.

EXPLANATIONS ARE SIMPLIFIED, FOR CONCISENESS

LOADING PROCESS

1 HEADERS

DISSECTED PE

THE DOS HEADER IS PARSED
THE PE HEADER IS PARSED
(ITS OFFSET IS DOS HEADER'S E_LFANEW)
THE OPTIONAL HEADER IS PARSED
(IT FOLLOWS THE PE HEADER)

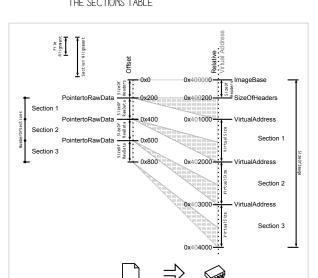
2 SECTIONS TABLE

FILEALIGNMENTS AND SECTIONALIGNMENTS

SECTIONS TABLE IS PARSED
(IT IS LOCATED AT: OFFSET (OPTIONALHEADER) + SIZEOFOPTIONALHEADER)
IT CONTAINS NUMBEROFSECTIONS ELEMENTS
IT IS CHECKED FOR VALIDITY WITH ALIGNMENTS:

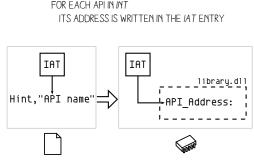
3 MAPPING

THE FILE IS MAPPED IN MEMORY ACCORDING TO: THE IMAGEBASE THE SIZEOFHEADERS THE SECTIONS TABLE



4 IMPORTS

DATADIRECTORIES ARE PARSED
THEY FOLLOW THE OPTIONALHEADER
THEIR NUMBER IS NUMOFRVAANDSIZES
IMPORTS ARE ALWAYS #2
IMPORTS ARE PARSED
EACH DESCRIPTOR SPECIFIES A DLLNAME
THIS DLL IS LOADED IN MEMORY
IAT AND INT ARE PARSED SIMULTANEOUSLY
FOR EACH API IN INT
ITS ADDRESS IS WRITTEN IN THE IAT ENTR'



5 EXECUTION

CODE IS CALLED AT THE ENTRYPOINT
THE CALLS OF THE CODE GO VIA THE IAT TO THE APIS



NOTES

MZ HEADER AKA DOS_HEADER
STARTS WITH 'MZ' (INITIALS OF MARK ZBIKOWSKI MS-DOS DEVELOPER)

PE HEADER AKA IMAGE_FILE_HEADERS / COFF FILE HEADER
STARTS WITH 'PE' (PORTABLE EXECUTABLE)

OPTIONAL HEADER AKA IMAGE_OPTIONAL_HEADER
OPTIONAL ONLY FOR NON-STANDARD PES BUT REQUIRED FOR EXECUTABLES

RVA RELATIVE VIRTUAL ADDRESS
ADDRESS RELATIVE TO IMAGEBASE (AT IMAGEBASE, RVA = 0)
ALMOST ALL ADDRESSES OF THE HEADERS ARE RVAS
IN CODE, ADDRESSES ARE NOT RELATIVE.

INT IMPORT NAME TABLE
NULL-TERMINATED LIST OF POINTERS TO HINT, NAME STRUCTURES

INTIMPORT MANE TABLE

NULL-TERMINATED LIST OF POINTERS TO HINT, NAME STRUCTURES

IAT IMPORT ADDRESS TABLE

NULL-TERMINATED LIST OF POINTERS

ON FILE IT IS A COPY OF THE INT

AFTER LOADING IT POINTS TO THE IMPORTED APIS

HINT

HINT
INDEX IN THE EXPORTS TABLE OF A DLL TO BE IMPORTED
NOT REQUIRED BUT PROVIDES A SPEED-UP BY REDUCING LOOK-UP