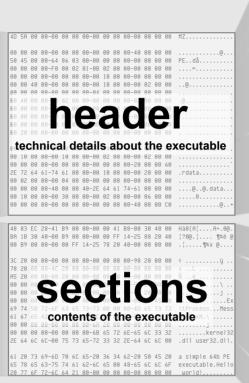
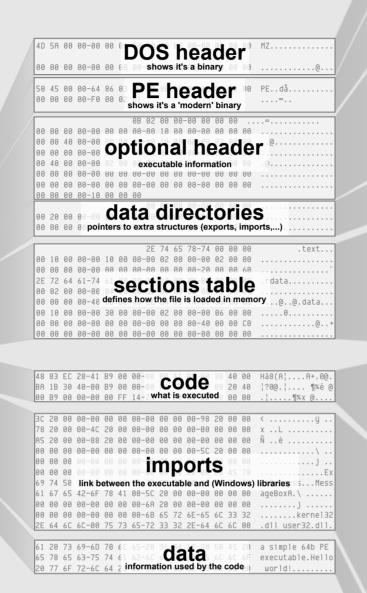
P_L E₁₀₁ a windows executable walkthrough (64bits)

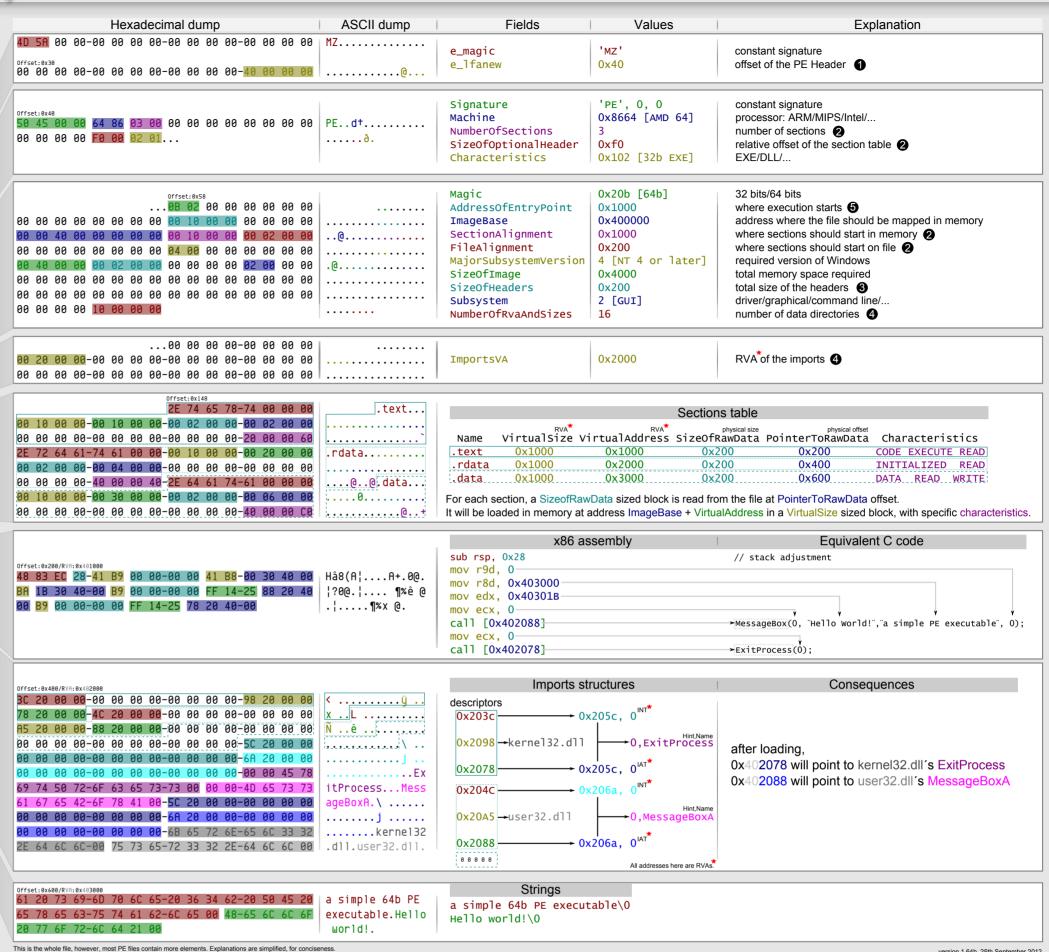
Dissected PE

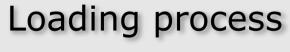


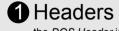
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	2E	64	6C	6C-00	75	73	65-72	33	32	2E-64	6C	6C	00	.dll user32.dll.
0600	61	20	73	69-6D	70	6C	65-20	36	34	62-20	50	45	20	a simple 64b PE







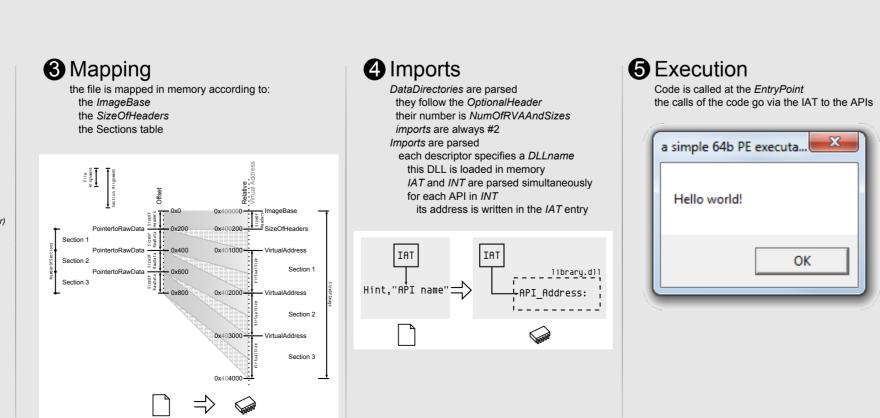




the DOS Header is parsed (its offset is DOS Header's e_Ifanew) the *Optional Header* is parsed (it follows the PE Header)

2 Sections table

Sections table is parsed (it is located at: offset (OptionalHeader) + SizeOfOptionalHeader) it contains NumberOfSections elements it is checked for validity with alignments: FileAlignments and SectionAlignments



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 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 Index in the exports table of a DLL to be imported

Not required but provides a speed-up by reducing look-up