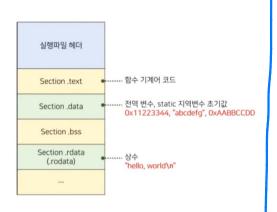
, 딸 비트 실행되었다고 , 언제 안들었고데 관차 실행파일 헤더 (foo()의 기계시 2로 ------ 함수 기계어 코드 Section .text ♣...... 전역 변수, static 지역변수 초기값 Section .data 0x11223344, "abcdefg", 0xAABBCCDD Section Section .bss erint (१५) ४५१२१९० १८० Section .rdata 상수 (.rodata) read only "hello, world\n"

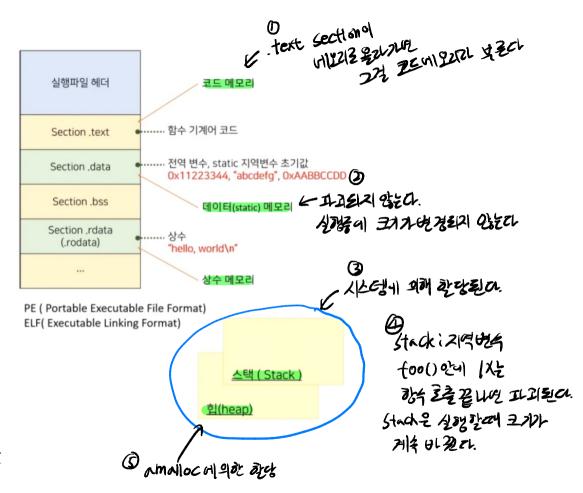
...

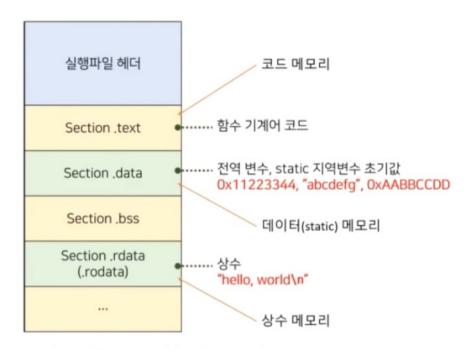
Windowallet PE
Portable Excutable file format
|inuxallet ELF
Excutable Linking format



이 실행되일이 어딘지로 몰라간다

@ 75 M121, GIOPHM124, 14 M121 & 121 M21 M21 M21 &





PE (Portable Executable File Format)
ELF(Executable Linking Format)
스택 (Stack)

● PEView 로 실행파일 포맷 조사

- http://wjradburn.com/software/
- PEView.exe 실행 후 "File -> Open" 메뉴 선택 후 first.exe 선택
- Linux 환경에서는 readelf 와 objdump 유틸리티로 확인 가 능

9. m. 3 mi		/ -																
-a.exe		pFile								Pau	Da	t a						
IMAGE DOS HEADER	- 4/	00000000	4D	54	OA	aa	02	aa	aa				aa	aa	EE	EE	00	aa
MS-DOS Stub Program	<i>y</i>	00000000	B8	20.00	00	00				00	-	00			00		00	
IMAGE NT HEADERS	- X	00000010				00		00	00		00	00	00		00		00	
IMAGE SECTION HEADER	tout	00000020		00	00	00		00		00	00	00	00		80		00	
																	54	
IMAGE_SECTION_HEADER		00000040						-									6E	
IMAGE_SECTION_HEADER		00000050		-		65		-									53	
IMAGE_SECTION_HEADER		00000000						-					00					_
IMAGE_SECTION_HEADER		00000070		-	-	00				00			0C					
IMAGE_SECTION_HEADER		00000000		01	00	00		00	07			01	-				00	
IMAGE_SECTION_HEADER		00000090 000000000		46	00	00	00						00		TT			
IMAGE_SECTION_HEADER		000000A0		40	00				40	-			00			02		
IMAGE_SECTION_HEADER		000000B0		00	00	00	01	00			04	00		00			00	
IMAGE_SECTION_HEADER		000000C0	-		01	00					61				03		00	
IMAGE_SECTION_HEADER				00	20	00		10			00		10				00	
IMAGE_SECTION_HEADER		000000E0		00	00	00		00		00	00	00	00			00	00	
IMAGE_SECTION_HEADER	/	000000100		80	00	00		05	00		00	00		00	00		00	
SECTION .text																		
SECTION .data		00000110		00	00	00		00	00		00	00	00			00	00	
SECTION .rdata		00000120 00000130		00	00	00	00	00			00	00	00	00	00	00	00	
SECTION		00000000		00	00	00	00	00	00	00	00	00				00		
SECTION .idata		00000140				00		00	00		00	00	00				00	
SECTION .CRT				00	00	00		00	00		-	81	00	00	D8	00	00	
SECTION .tls		00000160		00	00	00		00			00	00	00		00		00	
SECTION		00000170		00	00	00		00					65				00	
SECTION		00000180	84	28	00	00	00	10	00	00	00	20	00	00	00	04	00	00



실맹파일과 메모

- PEView 로 실험
- http://wiradb
- PEView exe
- peview a.exe

SECTION

SECTION

SECTION

SECTION

SECTION

SECTION

```
IMAGE SECTION HEADER .text
                              pFile
                                                           Raw Data
IMAGE SECTION HEADER .data
                             00000400 83 EC 1C 8B 44 24 20 8B 00 8B 00 3D 91 00 00 C0
IMAGE SECTION HEADER .rdata
                             00000410 77 4E 3D 8D 00 00 C0 73 60 3D 05 00 00 C0 0F 85
IMAGE SECTION HEADER
                             00000420 CC 00 00 00 C7 44 24 04 00 00 00 00 C7 04 24 0B
                             00000430 00 00 00 E8 F0 29 00 00 83 F8 01 0F 84 48 01 00
IMAGE SECTION HEADER .bss
IMAGE SECTION HEADER .idata
                             00000440 00 85 C0 0F 85 E7 00 00 00 8D B4 26 00 00 00 00
IMAGE SECTION HEADER .CRT
                             00000450 31 C0 83 C4 1C C2 04 00 90 8D B4 26 00 00 00 00
                             00000460 3D 94 00 00 C0 74 49 3D 96 00 00 C0 0F 84 89 00
IMAGE SECTION HEADER .tls
                             00000470 00 00 3D 93 00 00 C0 75 D7 C7 44 24 04 00 00 00
IMAGE SECTION HEADER
IMAGE SECTION HEADER
                             00000480 00 C7 04 24 08 00 00 00 E8 9B 29 00 00 83 F8 01
                             0000049 OF 84 AD 00 00 00 85 C0 74 B6 C7 04 24 08 00 00
IMAGE SECTION HEADER
                             000004A0 00 FF D0 B8 FF FF FF FF EB A8 8D B6 00 00 00 00
IMAGE SECTION HEADER
                             000004B0 C7 44 24 04 00 00 00 00 C7 04 24 08 00 00 00 E8
IMAGE SECTION HEADER
                             000004C0 64 29 00 00 83 F8 01 75 CD C7 44 24 04 01 00 00
SECTION .text
                             000004D0 00 C7 04 24 08 00 00 00 E8 4B 29 00 00 B8 FF FF
SECTION .data
                             000004E0 FF FF E9 6B FF FF FF 89 F6 8D BC 27 00 00 00 00
SECTION .rdata
                             000004F0 3D 1D 00 00 C0 0F 85 55 FF FF FF C7 44 24 04 00
                             00000500 00 00 00 C7 04 24 04 00 00 00 E8 19 29 00 00 83
SECTION .idata
                             00000510 F8 01 74 59 85 C0 0F 84 34 FF FF FF C7 04 24 04
SECTION .CRT
                             00000520 00 00 00 FF D0 B8 FF FF FF FF E9 23 FF FF FF 90
-SECTION .tls
                             00000530 C7 04 24 0B 00 00 00 FF D0 B8 FF FF FF FF E9 0F
                             00000540 FF FF FF C7 44 24 04 01 00 00 00 C7 04 24 08 00
                             00000550 00 00 E8 D1 28 00 00 C7 04 24 00 00 00 00 E8 BD
                             00000560 0E 00 00 B8 FF FF FF FF E9 E5 FE FF FF C7 44 24
                             00000570 04 01 00 00 00 C7 04 24 04 00 00 00 E8 A7 28 00
                             00000580 00 83 C8 FF E9 C9 FE FF FF C7 44 24 04 01 00 00
```

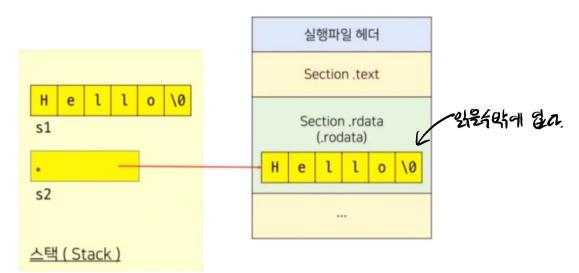
data of

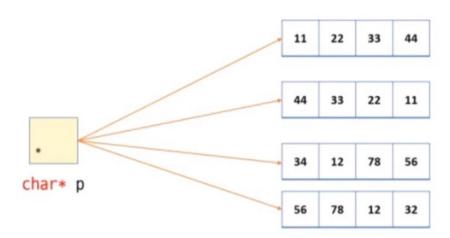
```
IMAGE SECTION HEADER .text
         pFile
IMAGE SECTION HEADER .data
        00003000 00 00 00 00 44 33 22 11 61 62 63 64 65 66 67 00
IMAGE SECTION HEADER .rdata
        00003010 DD CC BB AA 02 00 00 00
                  FD FF FF FF 00 40 00 00
IMAGE SECTION HEADER
        IMAGE SECTION HEADER .bss
        IMAGE SECTION HEADER .idata
        IMAGE SECTION HEADER .CRT
        IMAGE SECTION HEADER .tls
        IMAGE SECTION HEADER
        SECTION .text
        SECTION .data
        SECTION .rdata
        SECTION
        SECTION .idata
        SECTION . CRT
        SECTION .tls
        SECTION
        SECTION
        SECTION
        SECTION
        SECTION
```

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man in responded constitutional transformation constitution to respondent to the res																- 0
IMAGE_SECTION_HEADER	1						Rav	v Da	ta							Value
IMAGE_SECTION_HEADER	: 69	62	67	63	63	5F	73	5F	64	77	32	2D	31	2E	64	libgcc_s_dw2-1.d
IMAGE_SECTION_HEADER	: 6C	00	5F	5F	72	65	67	69	73	74	65	72	5F	66	72	llregister_fr
IMAGE_SECTION_HEADER	. 6D	65	5F	69	6E	66	6F	00	5F	5F	64	65	72	65	67	ame_infodereg
MAGE_SECTION_HEADER	1 73	74	65	72	-	66	72				5F					ister_frame_info
MAGE_SECTION_HEADER				67		6A	2D	31	36		64					.libgcj-16.dll
MAGE_SECTION_HEADER	. 76	5F	52	65	67	69	73	74	65	72	43	6C	61	73	73	Jv_RegisterClass
MAGE_SECTION_HEADER		00	00	68	-	6C		6F	20	77	_		6C		00	eshello world.
MAGE_SECTION_HEADER		40		4D			67	77	20	-	75					@.Mingw runtim
MAGE_SECTION_HEADER				69			72			ØA			20			e failure: Vi
MAGE_SECTION_HEADER		75		6C			65	72	79		66					rtualQuery faile
MAGE_SECTION_HEADER			6F	72		25			62		74			20		d for %d bytes a
MAGE_SECTION_HEADER					-						70					t address %p
ECTION .text		55	-	-	-	٠.	77	-	20		73	-		٠.	٠.	Unknown pseudo
ECTION .data	72		6C	6F		61			6F		20		72	•		relocation prot
SECTION .rdata	63	٠.	6C			65			69		6E					ocol version %d.
ECTION	. 00		00	20		55				•			20			Unknown ps
ECTION .idata	75		-		-						74					eudo relocation
ECTION .CRT	69	74	20	73		7A		20	25	64				00	00	bit size %d
SECTION .tls	: 00	67	6C	6F	~-		31	2E	30		6D			-		glob-1.0-mingw
SECTION	32	00		00			00		00		00	47		43	٠.,	32GCC:
SECTION	28	47		55			36		33	2E			-	00	-	(GNU) 6.3.0
SECTION	43			20		47	-				36					GCC: (GNU) 6.3.0
SECTION	00	00	00	47 47	43 43	43 43	3A 2D	20	28		69 2E		47	-		GCC: (MinGW.
SECTION	72	67 2E						36 47			3A			31		org GCC-6.3.0-1)
	30	2E	33	2E	30	טט	99	4/	43	43	3A	20	28	4/	4E	6.3.0GCC: (GN

对现代的中华之间有发出





$$\begin{array}{c|c}
0 \times 2000 \\
\hline
0 \times 1000 \\
\hline
0 \times 1000
\end{array}$$

$$\begin{array}{c|c}
0 \times 1000 \\
\hline
0 \times 1000
\end{array}$$

$$\begin{array}{c|c}
0 \times 1000 \\
\hline
0 \times 1000
\end{array}$$

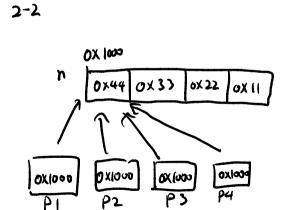
$$\begin{array}{c|c}
0 \times 1000 \\
\hline
0 \times 1000
\end{array}$$

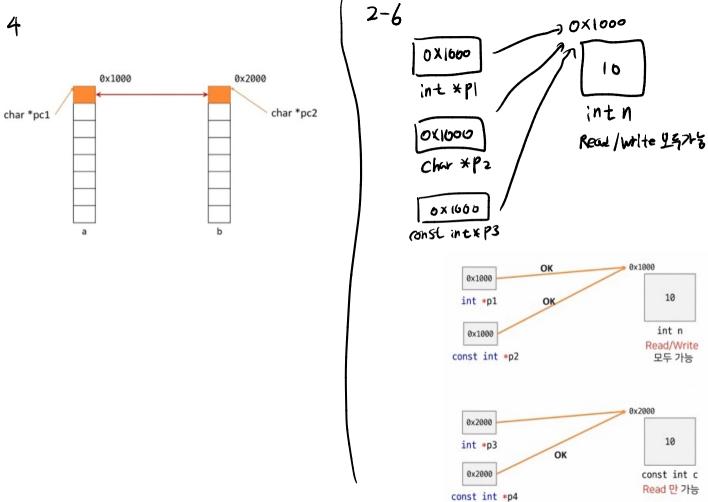
$$\begin{array}{c|c}
0 \times 1000 \\
\hline
0 \times 1000
\end{array}$$

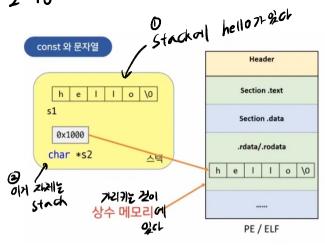
$$\begin{array}{c|c}
0 \times 1000 \\
\hline
0 \times 1000
\end{array}$$

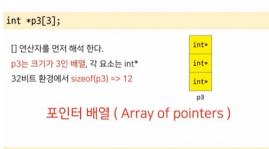
$$\begin{array}{c|c}
0 \times 1000 \\
\hline
0 \times 1000
\end{array}$$

$$\begin{array}{c|c}
0 \times 1000 \\
\hline
0 \times 1000
\end{array}$$

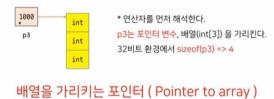








int (*p3)[3];



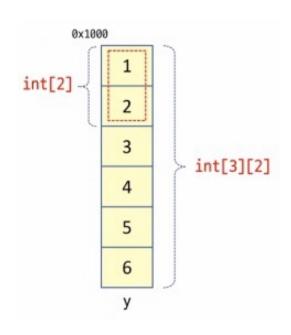
int(*p1)[3]

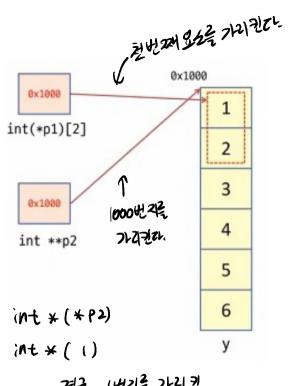
ex1000

|0x1000|
|x

⊙ "Array to pointer conversion" 문법

배열은 배열의 "첫 번째 요소의 주소"로 암시적 형 변환 된다.





견국 1번2년 가리킴