



try! Swift

MachObfuscator

Kamil Borzym
@kam800



Section9

cf	fa	ed	fe	07	00	00	01	03	00	00	80	02	00	00	00
23	00	00	00	58	10	00	00	85	00	20	00	00	00	00	00
19	00	00	00	48	00	00	00	5f	5f	50	41	47	45	5a	45
52	4f	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00	00	00	00	01	00	00	00	00	00	00	00	00	00	00	00
00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00	00	00	00	00	00	00	00	19	00	00	00	f8	04	00	00
5f	5f	54	45	58	54	00	00	00	00	00	00	00	00	00	00
00	00	00	00	01	00	00	00	00	50	00	00	00	00	00	00
00	00	00	00	00	00	00	00	00	50	00	00	00	00	00	00
07	00	00	00	05	00	00	00	0f	00	00	00	00	00	00	00
5f	5f	74	65	78	74	00	00	00	00	00	00	00	00	00	00
5f	5f	54	45	58	54	00	00	00	00	00	00	00	00	00	00
a0	15	00	00	01	00	00	00	7a	26	00	00	00	00	00	00

cf	fa	ed	fe	07	00	00	01	03	00	00	80	02	00	00	00
23	00	00	00	58	10	00	00	85	00	20	00	00	00	00	00
19	00	00	00	48	00	00									
52	4f	00	00	00	00	00									
00	00	00	00	01	00	00									
00	00	00	00	00	00	00									
00	00	00	00	00	00	00									
5f	5f	54	45	58	54	00									
00	00	00	00	01	00	00									
00	00	00	00	00	00	00									
07	00	00	00	05	00	00									
5f	5f	74	65	78	74	00									
5f	5f	54	45	58	54	00									
a0	15	00	00	01	00	00									

```
struct mach_header_64 {  
    var magic: UInt32  
    var cputype: UInt32  
    var cpusubtype: UInt32  
    var filetype: UInt32  
    var ncmds: UInt32  
    var sizeofcmds: UInt32  
    var flags: UInt32  
    var reserved: UInt32  
}
```

00 00 00 00

a0 15 00 00 01 00 00

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MACHO_64	X86_64	ALL	EXECUTE
35 ncmds	4184b	... PIE ...	-

```

19 00 00 00 48 00 00
52 4f 00 00 00 00 00
00 00 00 00 01 00 00
00 00 00 00 00 00 00
00 00 00 00 00 00 00
5f 5f 54 45 58 54 00
00 00 00 00 01 00 00
00 00 00 00 00 00 00
07 00 00 00 05 00 00
5f 5f 74 65 78 74 00
5f 5f 54 45 58 54 00
a0 15 00 00 01 00 00

```

```

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    var filetype: UInt32
    var ncmds: UInt32
    var sizeofcmds: UInt32
    var flags: UInt32
    var reserved: UInt32
}

```

```
extension Data {  
    func getStruct<T>(at offset: Int) -> T {  
        return withUnsafeBytes {  
            (ptr: UnsafePointer<UInt8>) in  
                ptr.advanced(by: offset)  
                    .withMemoryRebound(to: T.self,  
                                         capacity: 1,  
                                         { $0.pointee } )  
        }  
    }  
}
```

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                                         { $0.pointee } )  
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```

MACHO_64	X86_64	ALL	EXECUTE
35 ncmds	4184b	... PIE ...	-

```

19 00 00 00 48 00 00
52 4f 00 00 00 00 00
00 00 00 00 01 00 00
00 00 00 00 00 00 00
00 00 00 00 00 00 00
5f 5f 54 45 58 54 00
00 00 00 00 01 00 00
00 00 00 00 00 00 00
07 00 00 00 05 00 00
5f 5f 74 65 78 74 00
5f 5f 54 45 58 54 00
a0 15 00 00 01 00 00

```

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MACHO_64	X86_64	ALL	EXECUTE
35 ncmds	4184b	... PIE ...	-

19	00	00	00	48	00	00	00	5f	5f	50	41	47	45	5a	45
52	4f													00	00
00	00													00	00
00	00													00	00
00	00													00	00
5f	5f													00	00
00	00	00	00	01	00	00	00	00	50	00	00	00	00	00	00
00	00	00	00	00	00	00	00	00	50	00	00	00	00	00	00
07	00	00	00	05	00	00	00	0f	00	00	00	00	00	00	00
5f	5f	74	65	78	74	00	00	00	00	00	00	00	00	00	00
5f	5f	54	45	58	54	00	00	00	00	00	00	00	00	00	00
a0	15	00	00	01	00	00	00	7a	26	00	00	00	00	00	00

__TEXT,	__text	(0x0015A0 - 0x003c1a)
__TEXT,	__cstring	(0x003dc0 - 0x0043e2)
__TEXT,	__cstring	(0x0043e2 - 0x00440e)
__TEXT,	__objc_classname	(0x00440e - 0x004434)
__TEXT,	__objc_methname	(0x004434 - 0x004b09)
__TEXT,	__swift4_typereref	(0x004cbc - 0x004d38)
__TEXT,	__swift4_reflstr	(0x004de0 - 0x004e24)

```
__TEXT, __text (0x0015A0 - 0x003c1a)
__TEXT, __cstring (0x003dc0 - 0x0043e2)
__TEXT, __cstring MotokoKusanagi.init()
__TEXT, __objc_class 0x003860 push rbp
__TEXT, __objc_method 0x003861 mov rbp, rsp
__TEXT, __swift4 0x003864 mov rsi, qword [0x...]
__TEXT, __swift4 0x00386b mov rdi, r13
```


__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __cstring	(0x0043e2 - 0x00440e)
__TEXT, __objc_classname	(0x00440e - 0x004434)
__TEXT, __objc_methname	(0x004434 - 0x004b09)
__TEXT, __swift4_typereref	(0x004cbc - 0x004d38)
__TEXT, __swift4_reflstr	(0x004de0 - 0x004e24)

__TEXT, __text (0x0015A0 - 0x003c1a)

__TEXT, __cstring (0x003dc0 - 0x0043e2)

__TEXT, __cstring	0x003dc0	53	74	61	6e	64	20	41	6c
__TEXT, __cstring	0x003dc8	6f	6e	65	20	43	6f	6d	70
__TEXT, __objc_class	0x003dd0	6c	65	78	00	53	6f	6c	69
__TEXT, __objc_memo	0x003dd8	64	20	53	74	61	74	65	20
__TEXT, __swift4	0x003de0	53	6f	63	69	65	74	79	00
__TEXT, __swift4	0x003de8	41	72	69	73	65	20	2d	20

__TEXT, __text (0x0015A0 - 0x003c1a)

__TEXT, __cstring (0x003dc0 - 0x0043e2)

__TEXT, __cstring	0x003dc0	S	t	a	n	d	A	l
__TEXT, __cstring	0x003dc8	o	n	e	C	o	m	p
__TEXT, __cstring	0x003dd0	l	e	x	\0	S	o	l
__TEXT, __cstring	0x003dd8	d	S	t	a	t	e	
__TEXT, __cstring	0x003de0	S	o	c	i	e	t	y
__TEXT, __cstring	0x003de8	A	r	i	s	e	-	

```
--TEXT, __text          (0x0015A0 - 0x003c1a)
--TEXT, __cstring       (0x003dc0 - 0x0043e2)
--TEXT, __usttring       (0x0043e2 - 0x004400)
--TEXT 0x003dc0 Stand Alone Complex
--TEXT 0x003dd4 Solid State Society
--TEXT 0x003de8 Arise - Alternative Architecture
--TEXT, __swift4_reflstr (0x004de0 - 0x004e24)
```

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __cstring	(0x0043e2 - 0x00440e)
__TEXT, __objc_classname	(0x00440e - 0x004434)
__TEXT, __objc_methname	(0x004434 - 0x004b09)
__TEXT, __swift4_typereref	(0x004cbc - 0x004d38)
__TEXT, __swift4_reflstr	(0x004de0 - 0x004e24)

__TEXT, __text	(0x0015A0 - 0x003c1a)							
__TEXT, __cstring	(0x003dc0 - 0x0043e2)							
__TEXT, __cstring	0x0043e2	3b	65	bb	6b	5f	6a	d5 52
__TEXT, __objc_class	0x0043ea	8a	96	00	00	3e	d8	16 dd
__TEXT, __objc_method	0x0043f2	00	00	3d	d8	7b	dc	20 00
__TEXT, __swift4	0x0043fa	69	00	6e	00	20	00	74 00
__TEXT, __swift4	0x004402	68	00	65	00	20	00	3d d8
	0x00440a	1a	dc	00	00			

```
__TEXT, __text (0x0015A0 - 0x003c1a)
__TEXT, __cstring (0x003dc0 - 0x0043e2)
__TEXT, __cstring 0x0043e2 攻殻機動隊
__TEXT, __objc_c 0x0043ee 🤖
__TEXT, __objc_m 0x0043f4 👻 in the 🐌
__TEXT, __swift4.
__TEXT, __swift4.
```

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __ustring	(0x0043e2 - 0x00440e)
__TEXT, __objc_classname	(0x00440e - 0x004434)
__TEXT, __objc_methname	(0x004434 - 0x004b09)
__TEXT, __swift4_typereref	(0x004cbc - 0x004d38)
__TEXT, __swift4_reflstr	(0x004de0 - 0x004e24)

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __cstring	0x00440e MotokoKusanagi
__TEXT, __objc_class_names	0x00441d Tachikoma
__TEXT, __objc_memoize_block	0x004427 Batou
__TEXT, __swift4	0x00442d Togusa
__TEXT, __swift4	

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __ustring	(0x0043e2 - 0x00440e)
__TEXT, __objc_classname	(0x00440e - 0x004434)
__TEXT, __objc_methname	(0x004434 - 0x004b09)
__TEXT, __swift4_typereref	(0x004cbc - 0x004d38)
__TEXT, __swift4_reflstr	(0x004de0 - 0x004e24)

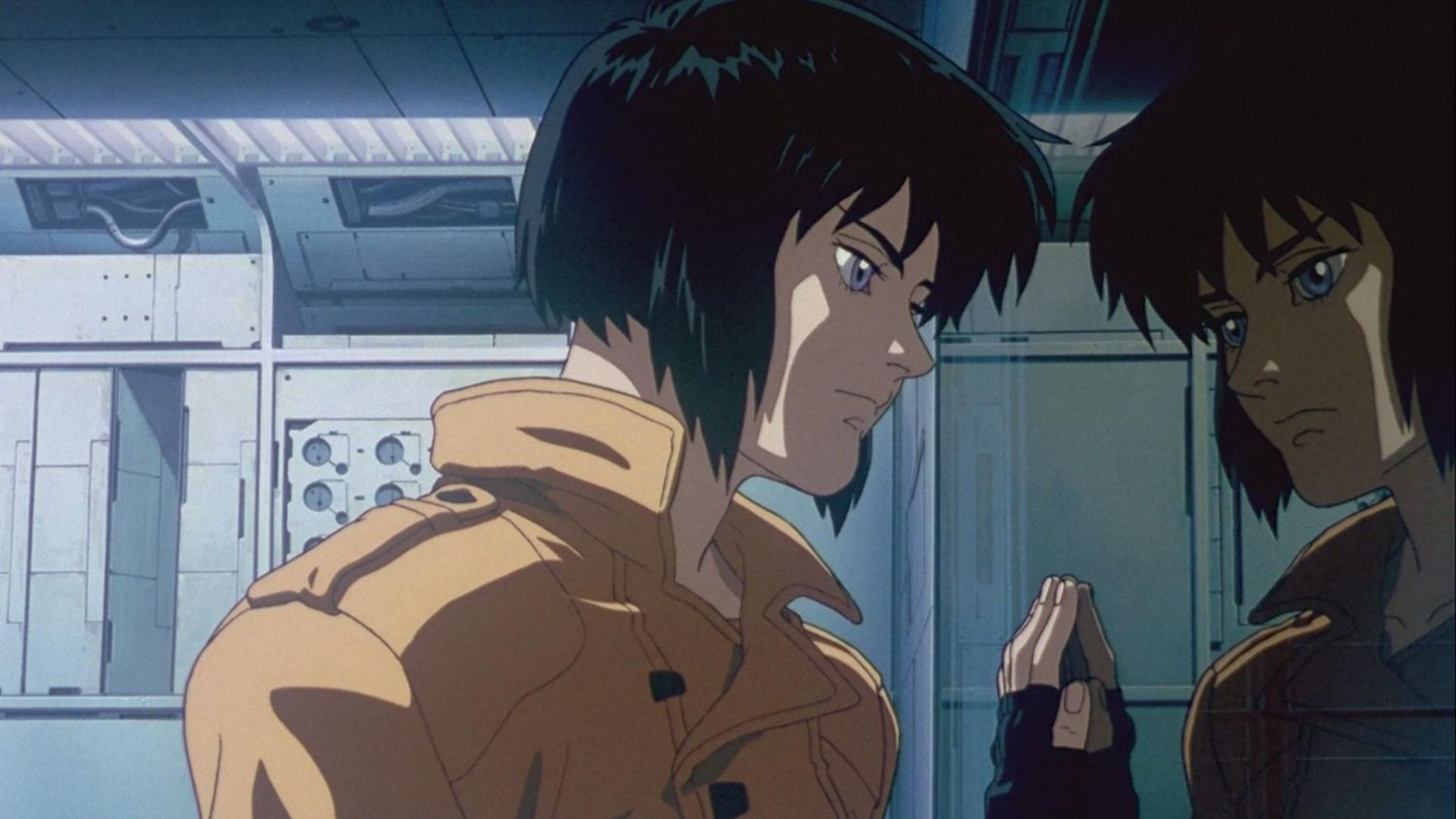
__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __cstring	0x004434 jumpOfTheSkyscraper
__TEXT, __objc_class	0x004448 wallRun
__TEXT, __objc_method	0x004450 jumpToBuilding:
__TEXT, __swift4	0x00445f init
__TEXT, __swift4	0x004464 dealloc
	0x00446c viewDidLoad

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __ustring	(0x0043e2 - 0x00440e)
__TEXT, __objc_classname	(0x00440e - 0x004434)
__TEXT, __objc_methname	(0x004434 - 0x004b09)
__TEXT, __swift4_typereref	(0x004cbc - 0x004d38)
__TEXT, __swift4_reflstr	(0x004de0 - 0x004e24)

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __cstring	0x004cc3 NSObject
__TEXT, __objc_class	0x004cd6 NSViewController
__TEXT, __objc_method	0x004ceb MotokoKusanagi
__TEXT, __swift4	0x004cff GitS.LaughingMan
__TEXT, __swift4	0x004d13 NSView
	0x004d1e NSResponder

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __ustring	(0x0043e2 - 0x00440e)
__TEXT, __objc_classname	(0x00440e - 0x004434)
__TEXT, __objc_methname	(0x004434 - 0x004b09)
__TEXT, __swift4_typereref	(0x004cbc - 0x004d38)
__TEXT, __swift4_reflstr	(0x004de0 - 0x004e24)

```
--TEXT, __text (0x0015A0 - 0x003c1a)
--TEXT, __cstring (0x003dc0 - 0x0043e2)
--TEXT, __cstring 0x004de0 major
--TEXT, __objc_c 0x004de6 hacker
--TEXT, __objc_m 0x004ded mainView
--TEXT, __swift4 0x004df6 titleLabel
--TEXT, __swift4 0x004e01 subtitleLabel
--TEXT, __swift4 0x004e10 descriptionTextView
```



github.com/kam800/MachObfuscator

github.com/kam800/MachObfuscator



● Swift 98.1%

A horizontal progress bar with a white background and a thin grey border. The bar is filled with an orange color, representing 98.1% completion. The text '● Swift 98.1%' is centered within the white area of the bar.

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __cstring	0x00440e MotokoKusanagi
__TEXT, __objc_class_names	0x00441d Tachikoma
__TEXT, __objc_memoize_block	0x004427 Batou
__TEXT, __swift4	0x00442d Togusa
__TEXT, __swift4	

__TEXT, __text	(0x0015A0 - 0x003c1a)
__TEXT, __cstring	(0x003dc0 - 0x0043e2)
__TEXT, __cstring	0x00440e CloudForHotEye
__TEXT, __objc_class_names	0x00441d SingleFly
__TEXT, __objc_memoize_block	0x004427 River
__TEXT, __swift4	0x00442d MixCat
__TEXT, __swift4	





Kamil Borzym



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allegro