

MACH-O¹⁰

ANGE ALBERTINI
CORKAMI.COM

[illegible]

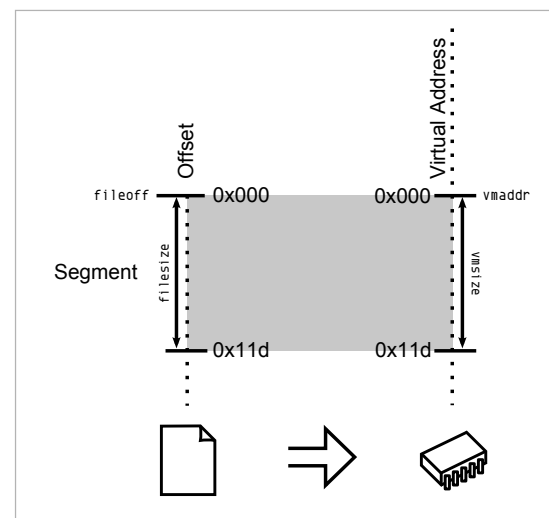
THIS KIND OF MACH-O FILES IS ONLY SUPPORTED SINCE OS X VERSION 10.8 (MOUNTAIN LION).
THIS IS THE WHOLE FILE, HOWEVER, MOST MACH-O FILES CONTAIN MANY MORE ELEMENTS.
EXPLANATIONS ARE SIMPLIFIED, FOR CONCISENESS.

1 HEADER

```
THE MACH-O HEADER IS PARSED
THE COMMANDS ARE PARSED
```

2 MAPPING

THE FILE IS MAPPED IN MEMORY
ACCORDING TO ITS SEGMENT
AND COMMANDS



3 EXECUTION

THE ENTRY POINT IS CALLED

SYSCALLS KERNEL SERVICES ARE ACCESSED VIA:

- SYSCALL NUMBER AND CLASS, IN THE RAX REGISTER
- CALLING INSTRUCTION SYSCALL

TRIVIA

THE MACH-O FORMAT COMES FROM THE MACH KERNEL,
CREATED AT CMU, IN 1985

IT'S USED AMONG OTHERS,
BY OS X, IOS, STEP...
ON IPHONES, IPODS, MACS...