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Bootable applications

An introduction



[github.com/michaelo/
bootable-applications](https://github.com/michaelo/bootable-applications)

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Who are you?

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Practical info

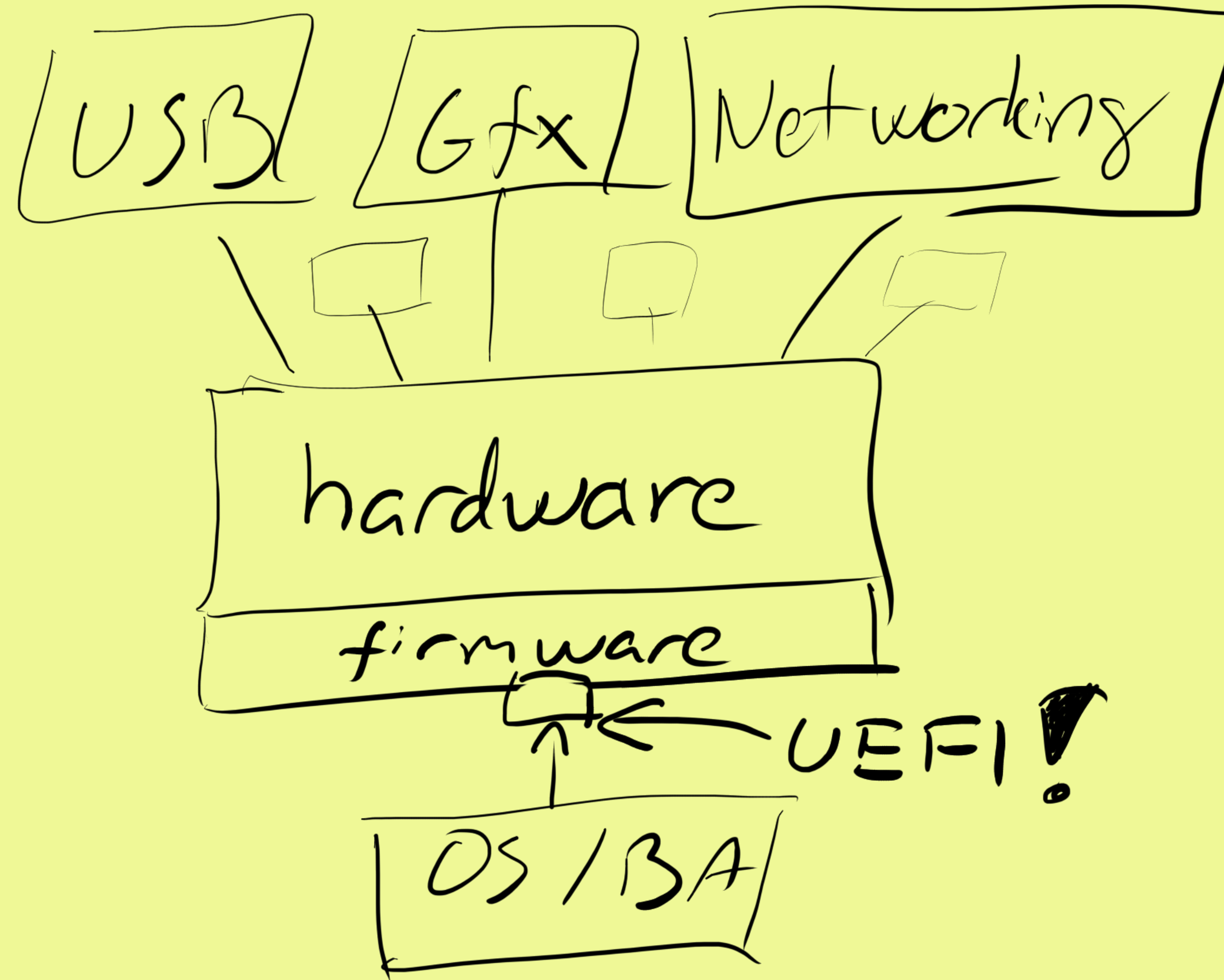


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Scope

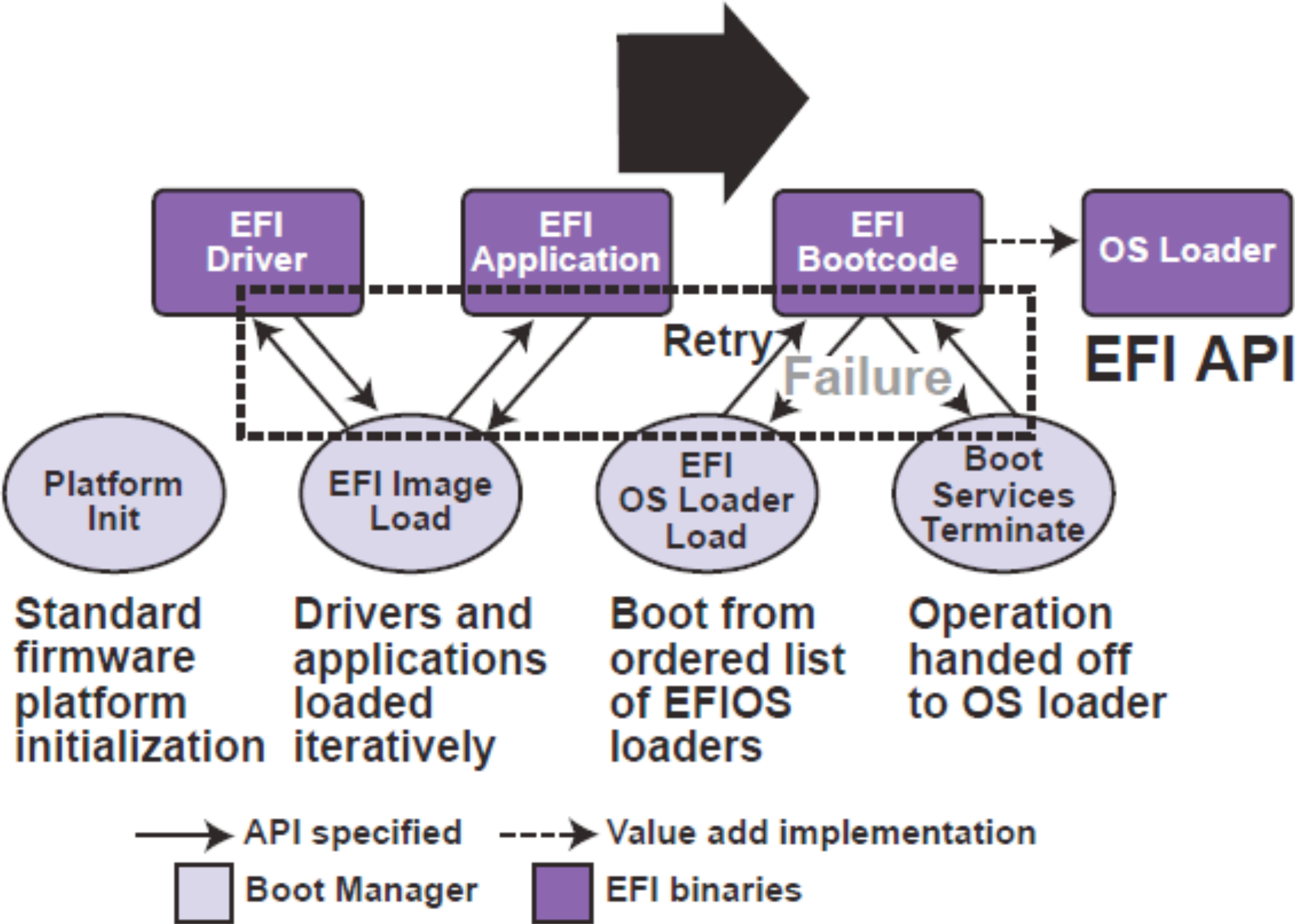
... why!?

UEFI?



... - Intel - Microsoft - ARM - AMD - Apple - ...
... - IBM - nvidia - Cisco - Broadcom - ...

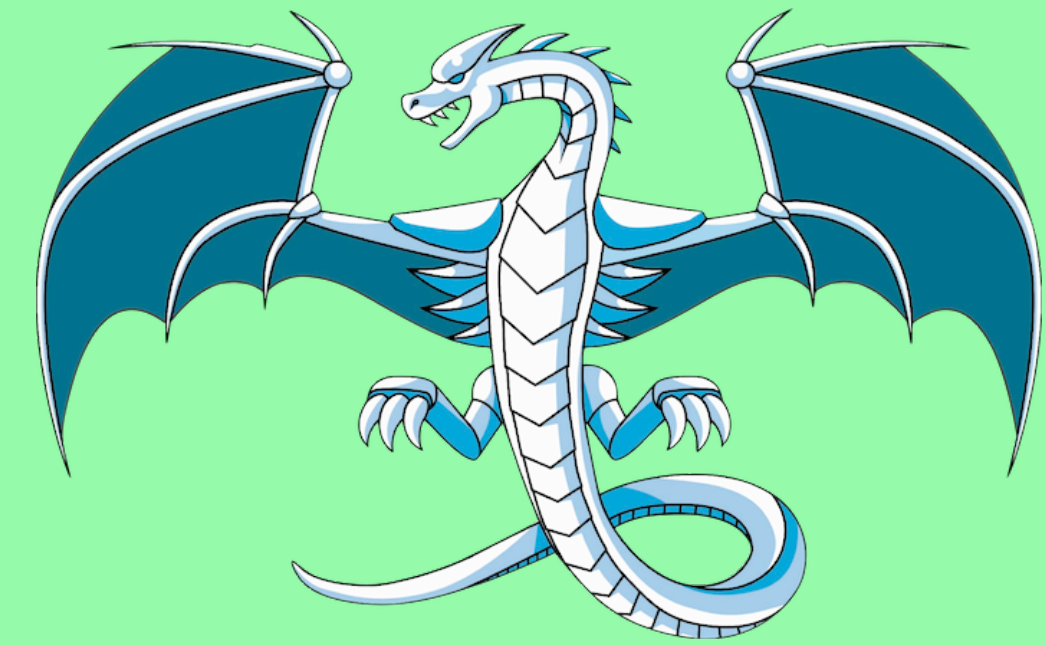
<https://uefi.org/specs/UEFI/2.10/>



OM13144

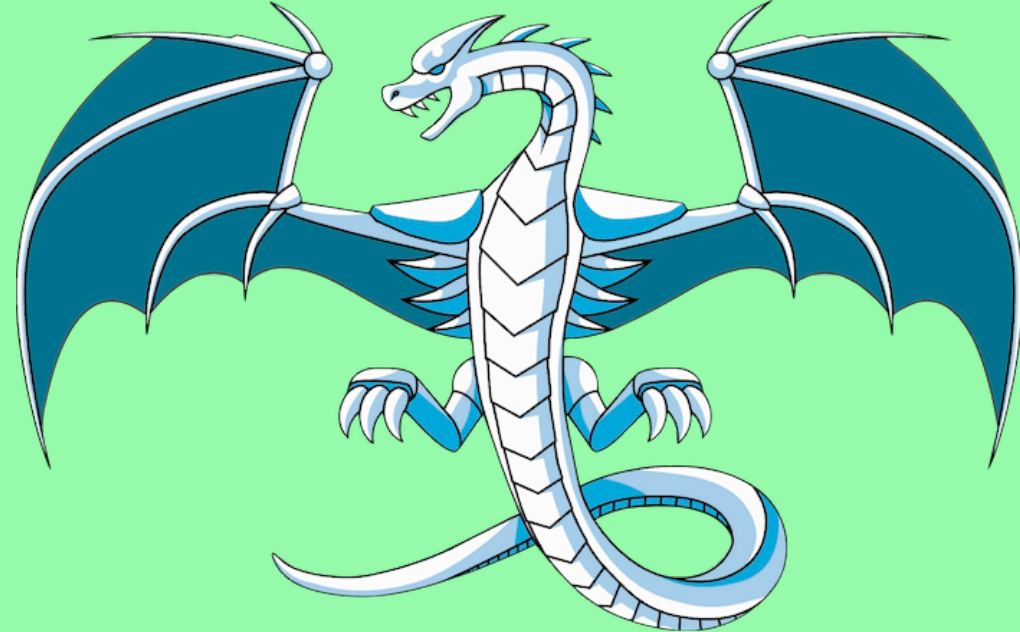
- 4. EFI System Table
 - 4.1. UEFI Image Entry Point
 - 4.1.1. EFI_IMAGE_ENTRY_POINT
 - 4.2. EFI Table Header
 - 4.3. EFI System Table
 - 4.4. EFI Boot Services Table
 - 4.5. EFI Runtime Services Table
 - 4.6. EFI Configuration Table & Properties Table
 - 4.7. Image Entry Point Examples
- 5. GUID Partition Table (GPT) Disk Layout
- 6. Block Translation Table (BTT) Layout
- 7. Services — Boot Services
- 8. Services — Runtime Services
- 9. Protocols - EFI Loaded Image
- 10. Protocols – Device Path Protocol
- 11. Protocols — UEFI Driver Model
- 12. Protocols — Console Support
- 13. Protocols – Media Access
- 14. Protocols — PCI Bus Support
- 15. Protocols — SCSI Driver Models and Bus Support
- 16. Protocols — iSCSI Boot
- 17. Protocols — USB Support
- 18. Protocols — Debugger Support
- 19. Protocols — Compression Algorithm Specification

The tools



`lil_uefi`



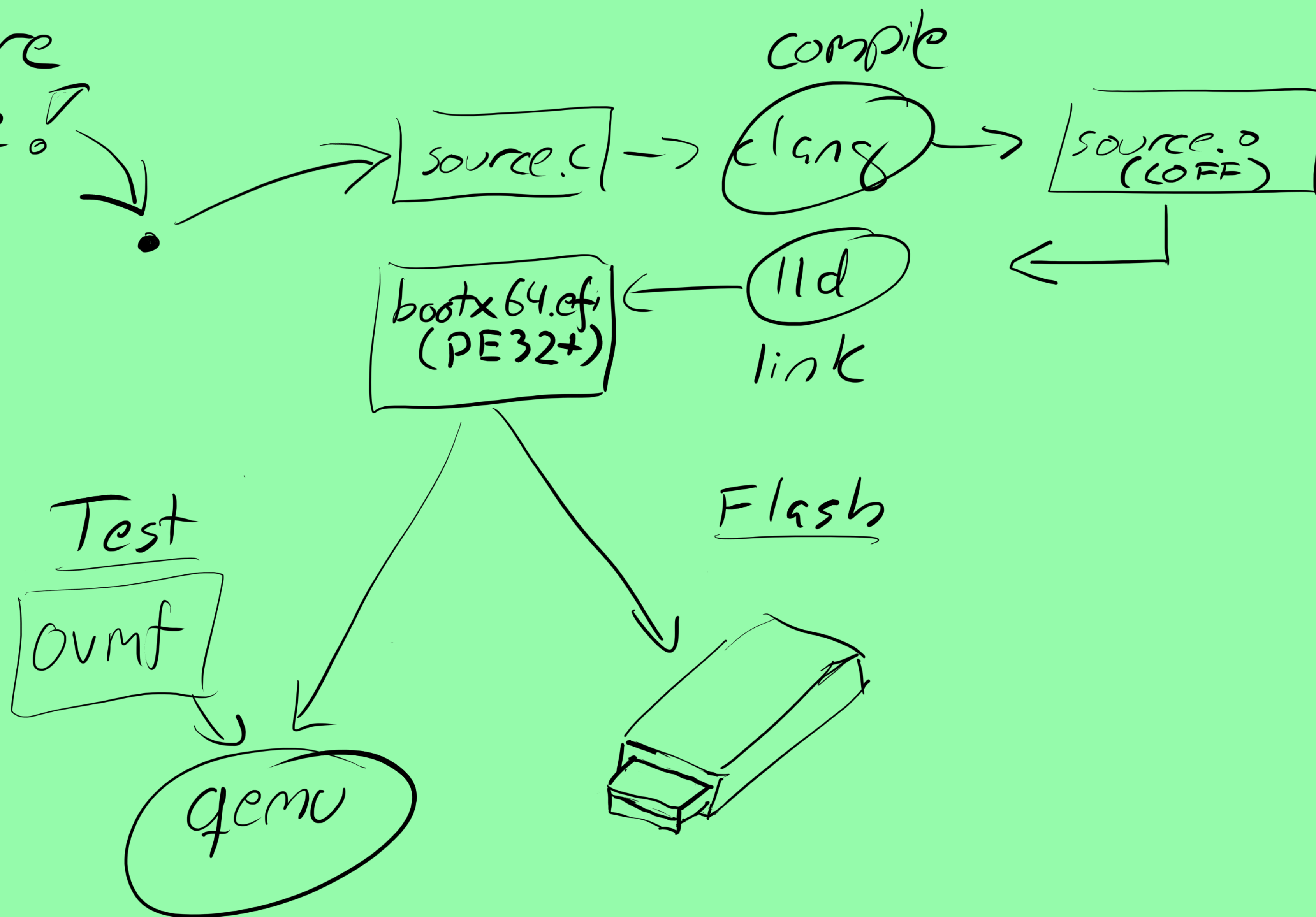


`lil_uefi`



The process

you are
here!



Let's dive in!

Further reading

- UEFI specification: <https://uefi.org/specifications>
- lil_uefi by Allen Webster and Ryan Fleury: <https://handmade.network/p/308/lil-uefi/>
- osdev.org: <http://wiki.osdev.org/UEFI>
- TianoCore / EDK II - <https://www.tianocore.org/> / <https://github.com/tianocore/edk2>
- uefi-simple: <https://github.com/pbatard/uefi-simple>

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Now go do something ~~good~~ fun!