The Boot Process

Operating Systems

1: power up

2: internal firmware

BIOS
UEFI

…

custom firmware

3: boot loader

stage 1
stage 2

...

MBR
GPT

. . .

4: kernel

CPU setup
hardware setup

. . .

5: initialization service

init
upstart
systemd
launchd

6: user space programs

login
shell

Supplemental Reading

Linux Insides

Booting & Initialization

0xax.gitbooks.io/linux-insides/content/Booting

0xax.gitbooks.io/linux-insides/content/Initialization