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Abstract
The driver is an interface of the communication of computer and peripheral device, so the connection between most devices and operating systems needs assistance via it. In Microsoft's window operating system, the driver is a very complicated set of Kernel-Mode Code. After the driver loads to the operating system, set about disposing the hardware interface in the operating system at once, and manage the system demand during operation, so the relation between the driver and operating system is close. That is to say, the developer of the driver does not have relevant background knowledge, and then the development of the program may encounter the difficulty.

In this thesis, we combine the development concept of the software and hardware, and set up the development environment of USB device driver, so the user can utilize this environment to produce the driver fast. Passing the package simulation device that we designed, it can imitate USB device and convey the package. Our design method can get the result of planning and proving each other of the software and hardware, and even there is not any hardware device on the initial stage of developing, the test job will not have great influence.
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