

Flow of BIOS

1. Initialize registers
2. Initialize TLB
3. Initialize cache(pending)
4. Initialize VGA
5. Write the 32-entry-interrupt table starting at physical address 0x00000280, virtual address 0x80000280
6. Load the OS from disk, put to physical address 0x00000380, virtual address 0x80000380, and jump to execute OS program

Function of BIOS

Device Name	Function	INT_NUM
7-Segment	Display 32bits' data on 8 segments	0x00
Switches	Read the states of 16 switches	0x01
Buttons	Read the states of 25 buttons	0x02
LEDs	Using 8 bits to control the LEDs	0x03
VGA-REG	Select display mode	0x04
VGA-CURSOR	Select cursort mode, location, color	0x05
VGA-TEXT	Scroll the screen by one line	0x06
VGA-TEXT	Display the character with specified location, color	0x07
VGA-TEXT	Display strings (end with 0) at specified locatoin	0x08
VGA-GRAPH	Display one pixel at with specified location, color	0x09