Схема работы ОС

Exit

Program
Code | **Libs**: string.c, asm.c, io.c

Kernel Memory | Shared Memory | Program Memory

Kernel
- ProgLoader
- Loop

Kernel
- Action | Driver | API | **Interrupt**

Hardware

- Interrupt init
- API init
- Drivers init
- GDT initialization

GRUB

Струкура программ

Default Program	Program
A first program on the disk	Not first program on the disk
START ADDRESS: 0x30000	START ADDRESS: 0x40000

START HEADER:
___IAMPROGRAM___
5F 5F 5F 49 41 4D 50 52 4F 52 41 4D 5F 5F 5F

INFO HEADER:
name

ENTRY POINT (0x30030): _start	ENTRY POINT (0x40030): _start

EXIT:
ret

END HEADER:
___ENDPROGRAM___
5F 5F 5F 45 4E 44 50 52 4F 52 41 4D 5F 5F 5F

Shared memory: 0x5000

keyboard		display		ProgLoader	
0x5000	keyboard buffer	0x5014	cursor position x	0x5020	programs
0x5010	keyboard buffer ptr	0x5016	cursor position y	0x7420	program count
0x5011	keyboard shift pressed	0x5018	ticks		
0x5012	keyboard ctrl pressed				
0x5013	keyboard alt pressed				

Структура памяти

44KB		44KB	128KB	64KB	64KB	64KB	64KB
GRUB BIOS и др.	Multiboot	special memory	kernel	Default Program	Program	Default Program Stack	Program Stack
0x0		0x5000	0x10000	0x30000	0x40000	0x50000	0x60000