# DLinux

CynYang

May 15, 2023

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debian	Linux	debian	v6.1.0.7-amd64



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debian	Linux debian v6.1.0.7-amd64			
bochs	Bochs v2.6.9			



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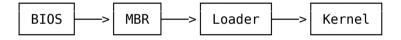
debian	Linux debian v6.1.0.7-amd64		
bochs	Bochs v2.6.9		
nasm	Nasm v2.16.01		
gcc	Gcc v12.2.0		



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debian	Linux debian v6.1.0.7-amd64		
bochs	Bochs v2.6.9		
nasm	Nasm v2.16.01		
gcc	Gcc v12.2.0		
Emacs	GNU Emacs v28.2		
Vim	GNU Vim v0.7.2		





#### Mbr

- ► 0x7C00
- ▶ 512□□
- ► □□Loader



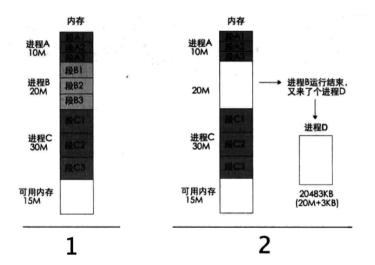
0×100000			1MB
	JMP F000:E05B	16B	
0×F0000	System BIOS	64KB-16B	
	Expansion Area (maps ROMs for old peripheral cards)	160KB	
0×C8000	Video BIOS	32KB	
0×C0000			
0×A0000	Legacy Video Card	128KB	
0×9FC00	Ext. System BIOS	1KB	
0.00	Available	~608KB	
0×7E00	мъъ	5100	
0×7C00	MBR	512B	
	Available	~30KB	
0x500	System BIOS	256B	
0×400	Interrupt Vector Tbl	1KB	
0	L		

#### Loader

- ▶ 000000
- ► □□Kernel

- ► []0x92[][]Bit[]1
- ► □□A20□□□
- ► □CR0□□□□PE Bit□1

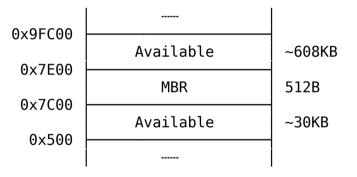






- ► 0000000000CR3
- ► □□□□CR0□PG Bit□1

## □□Kernel





- **▶** □□□□0□□□3
- ▶ 000000



- ▶ 00000000
- **▶** 00/0000



- ► Shell



- **▶** 00/0000
- **▶** 00/0000

### Shell

- ▶ L 🛛 U
- ► ls
- ► cd
- ► mkdir
- rm