

表空间, 段, 区

✓ (省, 市, 自治)

✓ (县, 地级市)

✓ (村)

(16K)

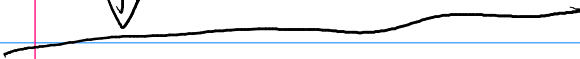


row format

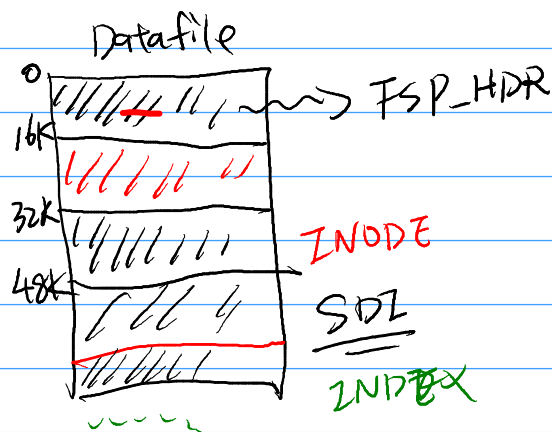
(Instant version) online DDL

表空间. create tablespace ...

根块

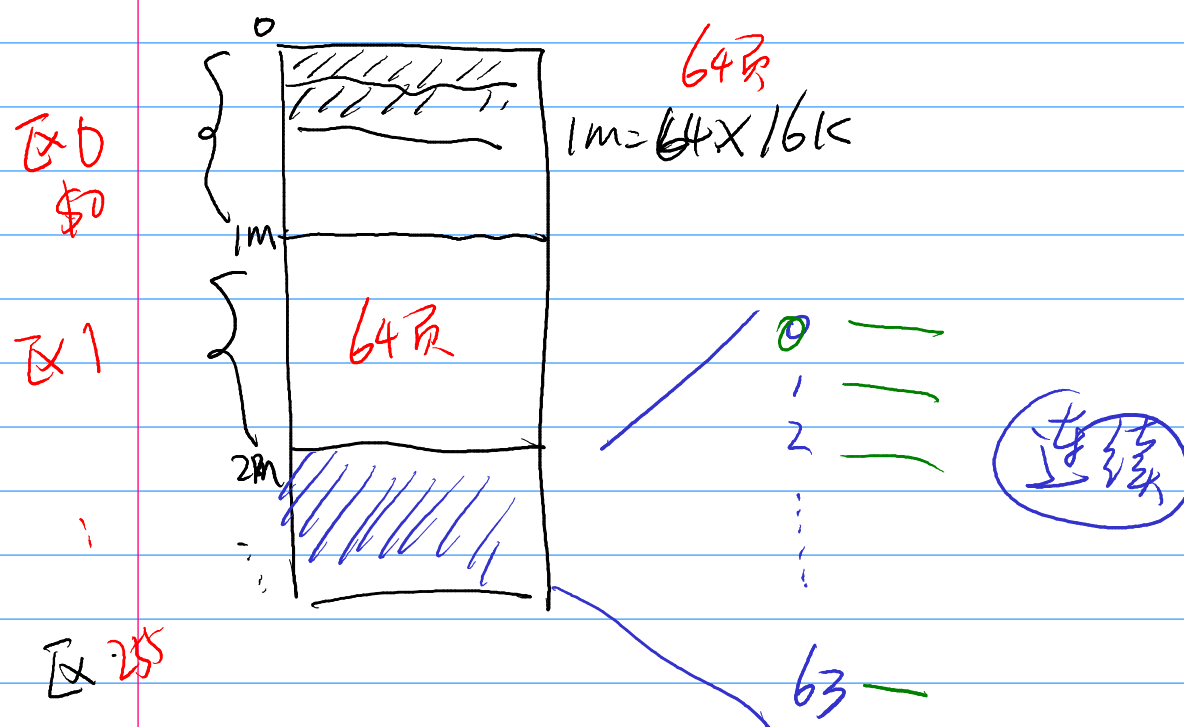


页(16K) \Rightarrow 区 \approx 64页 $64 \times 16K = 1M$ 1M



data/rtc » ibr test01.ibd list

page_no=0, page_type=FSP_HDR, space_id=87, lsn=3000904573, offset=0x0(0)
 page_no=1, page_type=IBUF_BITMAP, space_id=87, lsn=3000901157, offset=0x4000(16384)
 page_no=2, page_type=INODE, space_id=87, lsn=3000904573, offset=0x8000(32768)
 page_no=3, page_type=SDI, space_id=87, lsn=3000910979, offset=0xc000(49152)
 page_no=4, page_type=INDEX, space_id=87, lsn=3000904573, offset=0x10000(65536)
 page_no=5, page_type=ALLOCATED, space_id=0, lsn=0, offset=0x14000(81920)
 page_no=6, page_type=ALLOCATED, space_id=0, lsn=0, offset=0x18000(98304)



Page: H:FSP_HDR, X:XDES, I:INode, D:Index, S:SDI, A:Allocated
 Y:SYS, T:TRX_SYS, U:UNDO_LOG, B:IBUF_BITMAP, ?:Unknown

区0 \$0 HBISDAA

64页

Page: H:FSH_HDR, X:XDES, I:INode, D:Index, S:SDI, A:Allocated
Y:SYS, T:TRX_SYS, U:UNDO_LOG, B:IBUF_BITMAP, ?:Unknown

[illegible]

```
ta/rtc » ibr t500w.ibd list -p
```

Page: H:FSH_HDR, X:XDES, I:INode, D:Index, S:SDI, A:Allocated
Y:SYS, T:TRX_SYS, U:UNDO_LOG, B:IBUF_BITMAP, ?:Unknown

[illegible]

data/rtc »

```
data/rtc » ibr t500w.ibd list -e
```

XDES:

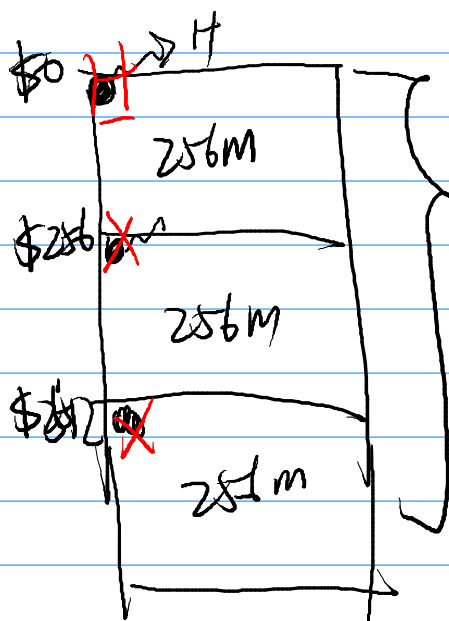
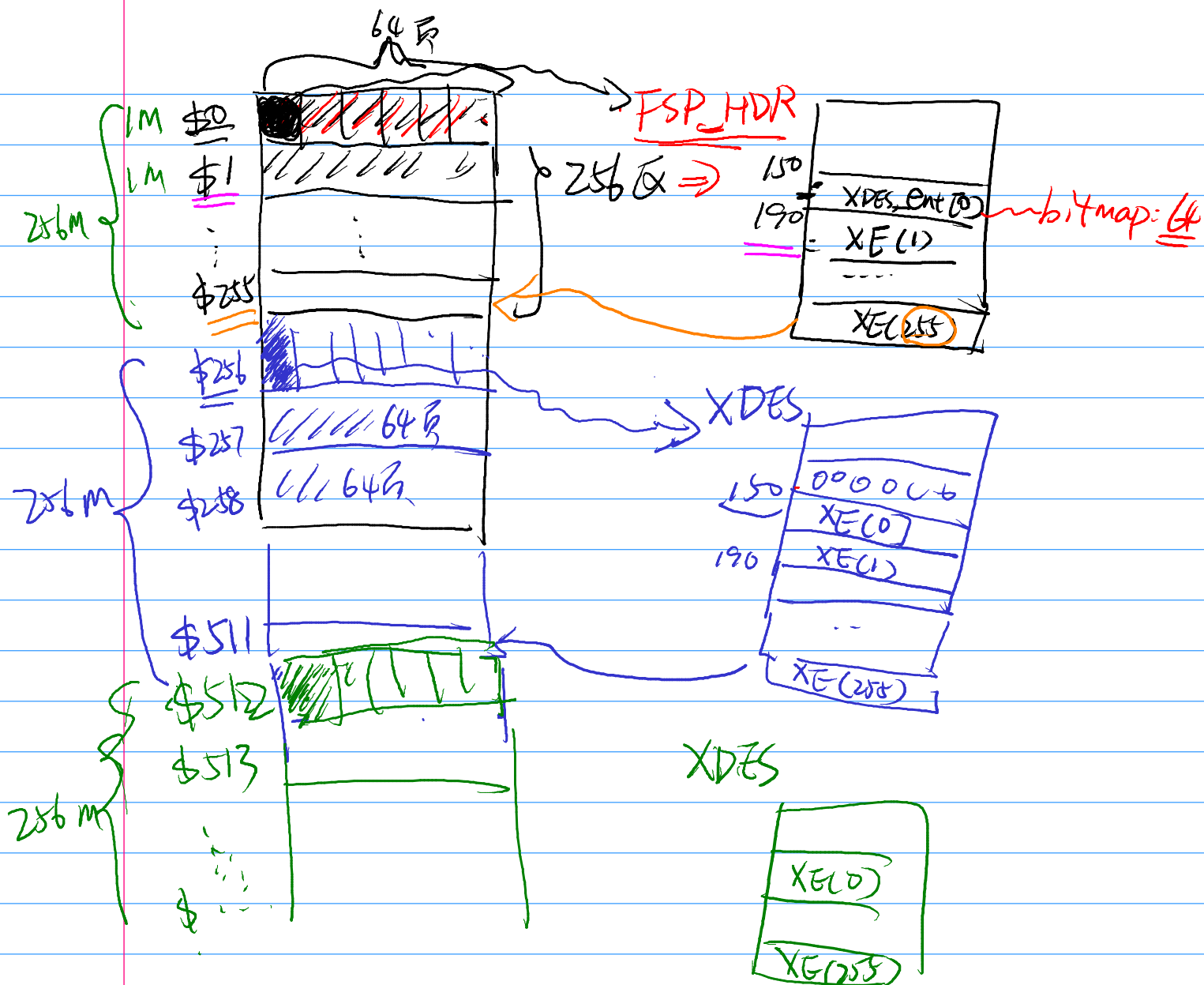
✓ free bitmap. F \Rightarrow free, X \Rightarrow non-free

[illegible]

```
free bits count: free=147, non-free=237
```

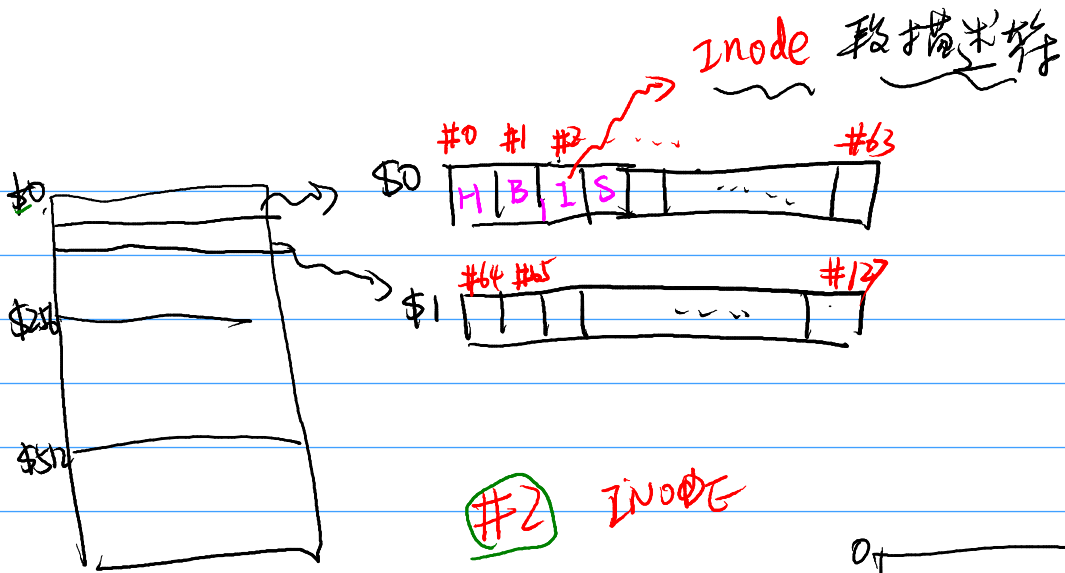
clean bitmap: C \Rightarrow clean, D \Rightarrow dirty

[illegible]

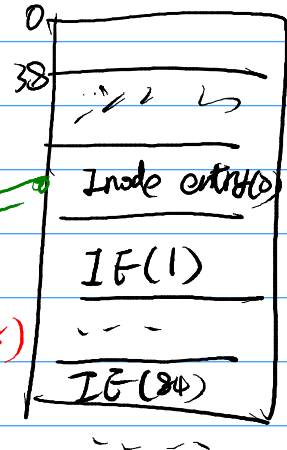


$$\$512 \Rightarrow \underline{\underline{512 \times 64}}$$

段



- ④
1. free (空页一个没用)
 2. not_full (用了一些)
 3. full (所区中页用完了)



(对应段) (对应子段)

页 4. frag 碎片

```
INodeEntry {
    addr: 0x0032@(50),
    inode_seq: 0,
    fseg_id: 1,
    fseg_not_full_n_used: 0,
    fseg_free: FlstBaseNode {
        addr: 0x003e@(62),
        len: 0,
        first: FilAddr { addr: 0x0042@(66), page: None, boffset: 0 },
        last: FilAddr { addr: 0x0048@(72), page: None, boffset: 0 },
    },
    fseg_not_full: FlstBaseNode {
        addr: 0x004e@(78),
        len: 0,
        first: FilAddr { addr: 0x0052@(82), page: None, boffset: 0 },
        last: FilAddr { addr: 0x0058@(88), page: None, boffset: 0 },
    },
    fseg_full: FlstBaseNode {
        addr: 0x005e@(94),
        len: 0,
        first: FilAddr { addr: 0x0062@(98), page: None, boffset: 0 },
        last: FilAddr { addr: 0x0068@(104), page: None, boffset: 0 },
    },
    fseg_magic_n: 97937874,
    fseg_frag_arr: [3],
}
```

空闲

用满

A: 新办