```
         ~                          ~
        |  Protected-mode kernel   |
100000  |                          | 1M
        |  I/O memory hole         |
0A0000  |                          | 640K
        |  Reserved for BIOS       |      Leave as much as possible unused
         ~                          ~
        |  Command line            |      (Can also be below the X+10000 mark)
X+1000  |                          | 64K
        |  Stack/heap              |      For use by the kernel real-mode code.
X+0800  |                          | 32K
        |  Kernel setup            |      The kernel real-mode code.
        |  Kernel boot sector      |      The kernel legacy boot sector.
X       |                          |
        |  Boot loader             |   <- Boot sector entry point
001000  |                          | 4K     [0000:7C00] (31K)
        |  Reserved for MBR/BIOS   |
000800  |                          | 2K
        |  Typically used by MBR   |
000600  |                          | 1.5K
        |  BIOS use only           |
000000  |_____|
```