

Endianness

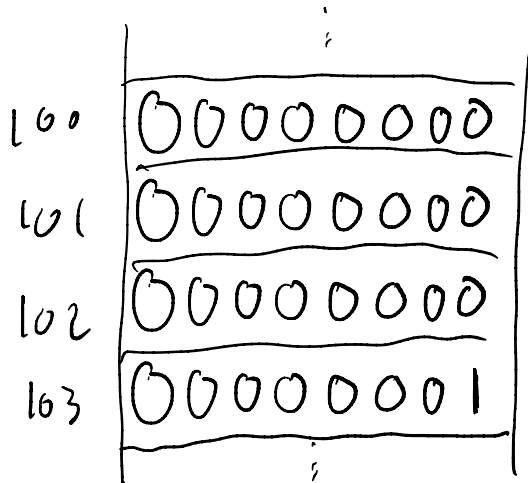
- When serializing data in a binary format, byte order matters
- Binary representation
 - Multi-byte data types (like int in C) store a single value across multiple bytes
 - Different machines can store the order of bytes differently

int x = 1;

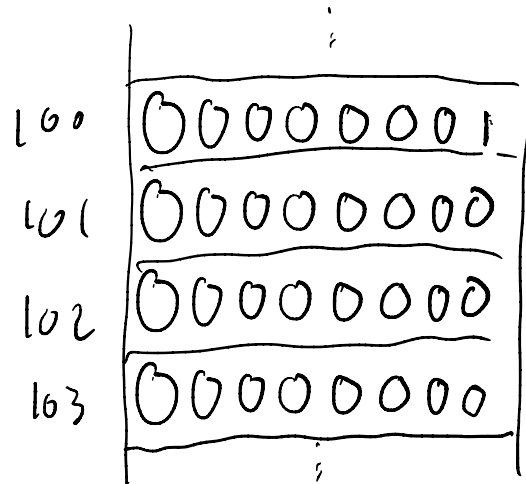
00000000 00000000 00000000 00000001

Say this is stored at address 100

Big endian



Little endian



- Big endian

- The most significant byte is at the lowest address
- Preferred for sending data over the internet
 - Also called "network byte order"

- Little endian

- Least significant byte at the lowest address
- Used by Intel and AMD