Lecture 16

printf("%of %of\n", x, y)

5 72.76 59.38124 8
4 1.7917 -3.789 6

25 bytes

4 mp. song ⇒ 5 Mbytes

fwrite(Yval, sizeof(float), 1,)

→ 32-bit floats: 16 bytes
64-bit double: 32 bytes → fprintf(stdout, "%of", x);

```
float x,
  x= 27.27;
fwrite(&x, sizeof(float), 1, fp);
printf(%f, x);
      %10.4f
      %15.6e
```

printf("%of", x);

fwrite(str 4

→ fwrite(&x, sizeof(float), 1, stdout)

[ ][ ][ ] ...

3.761 27.9312

4.638 -35.69012

short int i; 16 bit integer

i = 129,673

range of short int: [

8 bit:

unsigned char: [0, 255]

char: [-127, 128]

16 bit:

short int: [-32768, 32767]

unsigned short: [0, 65535]

short int i = -35.69012

```
find max in signal = max

for (i=0; i<N; i++) {
    short int isum = (x[i]/max * 32767)

    if

    float sum = round(x[i]/max * 32767.0)
    if(sum > 32767)
        sum = 32767
    elseif sum < -32767
        sum = -32767

short int isum = sum
fwrite (&isum, ...)
```