S	exponent (23 – 30)	mantissa (bits 0 – 22)
0	1 0 0 0 0 0 0 1	1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Figure 3.11 The value 6.5 (decimal) represented as a single-precision IEEE floating point constant.