

3. (1) $(25.8125)_{10} = (11001.1101)_2 = (31.64)_8 = (19.D)_{16}$
 (2) $(101101.011)_2 = (45.375)_{10} = (55.3)_8 = (2D.6)_{16} = (01000101.00110110101)_{84}$
 (3) $(010110010110.0011)_{8421} = (596.3)_{10} = (1001010100.010011001\cdots)_2$
 $= (254.4CC\cdots)_{16}$
 (4) $(4E.C)_{16} = (1001110.1100)_2 = (78.75)_{10}$

4. $[+0.100]_{\text{原}} = 0100\ 1000$
 $[-0.100]_{\text{原}} = 1100\ 1000$
 $[+1.0]_{\text{原}}$ 不能表示
 $[-1.0]_{\text{原}}$ 不能表示
 $[+0.010100]_{\text{原}} = 0010\ 1000$
 $[-0.010100]_{\text{原}} = 1010\ 1000$
 $[+0]_{\text{原}} = 0000\ 0000$
 $[-0]_{\text{原}} = 1000\ 0000$

5. $[+100]_{\text{补}} = 1000\ 1001$
 $[+100]_{\text{补}} = 0000\ 1001$
 $[-100]_{\text{补}} = 0111\ 0111$
 $[-100]_{\text{补}} = 1111\ 0111$
 $[+1]_{\text{补}} = 1000\ 0001$
 $[+1]_{\text{补}} = 0000\ 0001$
 $[-1]_{\text{补}} = 1111\ 1111$
 $[-1]_{\text{补}} = 0111\ 1111$
 $[+10100]_{\text{补}} = 1001\ 0100$
 $[+10100]_{\text{补}} = 0001\ 0100$
 $[-10100]_{\text{补}} = 1110\ 1100$
 $[-10100]_{\text{补}} = 0110\ 1100$
 $[+0]_{\text{补}} = 0000\ 0000$
 $[-0]_{\text{补}} = 0000\ 0000$
 $[+0]_{\text{补}} = [-0]_{\text{补}} = 1000\ 0000$

6. (1) $[X]_{\text{补}} = 1110\ 0111$
 $X = -2^7 + 2^6 + 2^5 + 2^2 + 2^1 + 2^0 = -25$
 (2) $[X]_{\text{补}} = 1000\ 0000$
 $X = -2^7 = -128$
 (3) $[X]_{\text{补}} = 0101\ 0010$
 $X = 2^6 + 2^4 + 2^1 = 82$
 (4) $[X]_{\text{补}} = 1101\ 0011$
 $X = -2^7 + 2^6 + 2^4 + 2^2 + 2^0 = -45$

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8. (1) FFFF8000 (2) 020A (3) 0000FFFA

(4) 40 (5) BF8CCCCC

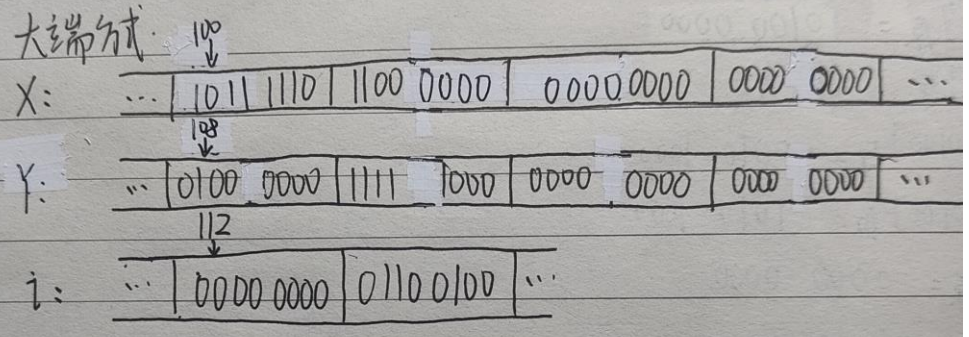
(6) 4025 0000 0000 0000

9. (1) $\frac{-65530}{2^{16}}$ (2) -8196 (3) $2^{32}-6$

(4) * (5) -1.5625×2^{-55}

(6) -1.28125×2^{-509}

17. 大端方式



小端方式

