

8192 + 4096 + 2048 + SI2+ 128 + 32+4 = 15012

(d) $403FB001_{16}$

4 0 3 F 6 0 0 1 0100 0000 0011 1111 1011 0000 0000 0001

(d) 1001111112 1001111112 1001111112 1001111111210011111112

signd > DEC = - (22+16+4+1) = -53

(d) 711₁₀

(d) -150_{10}

DEC → 8-bit Two's 8-bit Two's complement range

[-2°-1,2°-1-1] or [-128,127] Overflows]

(e) 12710

DEC = signed

DIII IIII

(b) 1001₂

4-bit TWo'c → 8-bit TWo's

(b) 10012

4-bit unsigned - 9-bit unsigned

- 0000 1001

(d) 711₁₀

PEC > OCT

PEC > SH

OO | O | | O O O | | |

1 3 0 7

= 1307

(d) 25608

OCT - BIN 1096 SIZ 64 8

Estimate the value of 231

 $2^{30} \cdot 2'$ $2^{30} \approx 10^{3} \approx 1611_{10}$ 2' = 2 $= 1611_{10} \times 2$ $= 2.611_{10}$

(b) 11012 + 10112

wasquad oddition = 4-64t

(1)

+ | 0 | 1

11000 OVERFLOW!

(b) 1101₂ + 1011²

TWO 6 ODD TO 100

THOSE ODD TO 1000

No overflow

 $\begin{array}{c} \text{(e)} \quad -16_{10} + -9_{10} \\ \text{9EC} \Rightarrow \text{(white Table = 6-bit)} \\ -|\text{(white Table = 6-bit)}| \text{(0000} \\ -|\text{(white Table = 6-bit)}| \text{(10000} \\ -|\text{(white Table = 6-bit)}| \text{(100000} \\ -|\text{(white Table = 6-bit)}| \text{(100000} \\ -|\text{(white T$

+ 110000 - 110111 - 100111

(d) $4_{10} - -8_{10}$ $p_{8C} \rightarrow s_{-}^{-} s$

(d) 10011111112halfs the sign of positive 1 = Nigotive

this is majore number so construct into pattern Trus Conference

First, mucht all birts

[OOI IIII OODD

Then, odd 1

OIIO OODD

Now that is like a regular known manker.

CONSERT INTO OCO |

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