Encoding 2 page 2

9107 → negative
+ E311 → negative
= 7418 → positive
modular
carry = y
overflow = y, saturated = 8000

0037 → positive
+ 030C → positive
= 0343 → positive
modular
carry = n
overflow = n, saturated = 0343

7FC0 → positive
+ 0049 → positive
= 8009 → negative
modular
carry = n
overflow = y, saturated = 7FFF

IEEE 754 single precision

hex 43 D8 00 00 → binary 0100 0011 1101 1000 0000 0000 0000 0000

s = 0

regroup 0 1000 0111 101 1000 0000 0000 0000 0000

e = 87 = 135
hex decimal

e f

expression = $1.1011 \times 2^{135-127}$

$= 1.1011 \times 2^{8}$ → binary scientific

decimal = ~~xxxxxxxx~~ 1.10110000 = 1 10110000 = Down 1, 3, 6, 13, 27, 54, 108, 216, 432

binary scientific -1.01×2^{86} s = 1, 86 = e − 127,

f (w/ 21 zeroes)

e = 213 = D5 hex

hex 1 1101 0101 010 0000 0000 0000 0000 0000

= E A A 0 00 00 → EA A0 00 00