Dule

151 ten = 1001 0111 two, 214 ten = 11010110 + wo

~ 151, 214以补码存储

" 1001 0111 → 1110 1001 = -105

1101 0110 - 1010 1010 = -42

1 -105-42 =-147 = 10111 1111 fwo

: overflow, 01111111 ==127

1. -105-42 = -127

3-18

Iteration step Quotient Divisor Remainder volves 000 000 Initial 010 001 000000 000 000 111 Row-Rem-Div 000 000 010 001 000 000 101 111 111 100 Rem<0, R+10, Ra<< 000 000 010 000 000 000. 000 000 111 100 skift Div right 000 000 000 000 111 100 001 000 100 100 Ram = Rem - 172V 001000100000 000 000 111 000 011 100 Rem'<0, K+D, B<< 0 0 1 000 1000 OD 000 000 000 000 111 100 0001000100000000000111100 000 000 Rem = Rem - Div 0 00000 3 Rem < u, Rt D, Q<<-0 00 000 0 00100010000 000 000 111 100 shift Div-00 000 0 00010001000 111 110 110 100 Rem = Rem-Div 4 00 000 0 000 1000 1000 000 100 111 100 Pem Ko, PtD, QK 00 000 0 00001 000100 000 000111 100 shift Div

Mo Tu We Th Fr So Su Date / /
S (Rem<0, R+D, 0<<- 000000 00000000000000000000000000
(shift Div 000000 0000000000000000000000000000
6 / Rem = Rem-Piv- 000000 000 000 100 010 000 000 011 010
Remar. @Cl << +1 0 00 00 00000000000000000000000000
shift Plv 000001 000000000000000000000000000000
7 Rem = Rem - PIV. 0 00 001 0000000000000000000000000000
shift Div 0 00 0011 00 000001000 000 0000100
3-27
-1.5625 x10-1 = -0.15625 x100'
$=-0.00101 \times 2^{\circ} = -1.01 \times 2^{-3}$
i, sign: 1 exponent: -3+15=12=01100'
11,5625 X10-1: 101100010000000
3-29
$2.6125 \times 10^{1} = 26.125 \times 10^{0} = 11010.001 \times 2^{0} = 1.1010001 \times 2^{0}$
4,150390625×10-1 = 0.4150390625×100 = 0.0110101010111×20
$= 1.101010111 \times 2^{-2}$
$= 0.0000011010100111 \times 2^{4}$
1. sum: 1.101010001010×24 = 2.6546875×101
sign: 0 exponent: 4+15=19, fraction: 1010100010
:. sum: 0 0011 010 000 00