

-20X-10

Booth's Algo
different
bits in
BR & QR
example.

16 8 4 2 1
12027 0 1 0 1 0 0
1' => 1 0 1 0 1 1

QR = 01010
10101

(20) BR => 101100
BR+1 => 010100

QR => 10110

	AC	QR	Q _{n+1}	SC
00 ASHR	00000000	10110	0	101
	00000000	01011	0	100
10 -> ACT+BR+1	010100			
ASHR	01010001011	01011	0	
	0010010000101		1	011
ASHR	000101000010		1	010
01 -> ACT+BR	101100			
ASHR	110001000010		1	
	111000100001		0	001
10 -> ACT+BR+1	010100			
ASHR	0011100100010		0	000
	000110010001		1	

00011001000
128 64 32 16 8 4 2 1

128
64
8
200 => +200 ✓