$1\,9\,2\,3_{(10)} = 1.10^3 + 9.10^2 + 2.10^1 + 3.10^0$

Rang	3	2	1	0
Poids	10^3	10^2	10^1	10^0

---

8 4 2 1

$1011\,|\,0011_{(2)} = 128+32+16+2+1 = 179_{(10)}$

(10) 128 64 32 16 | 8 4 2 1

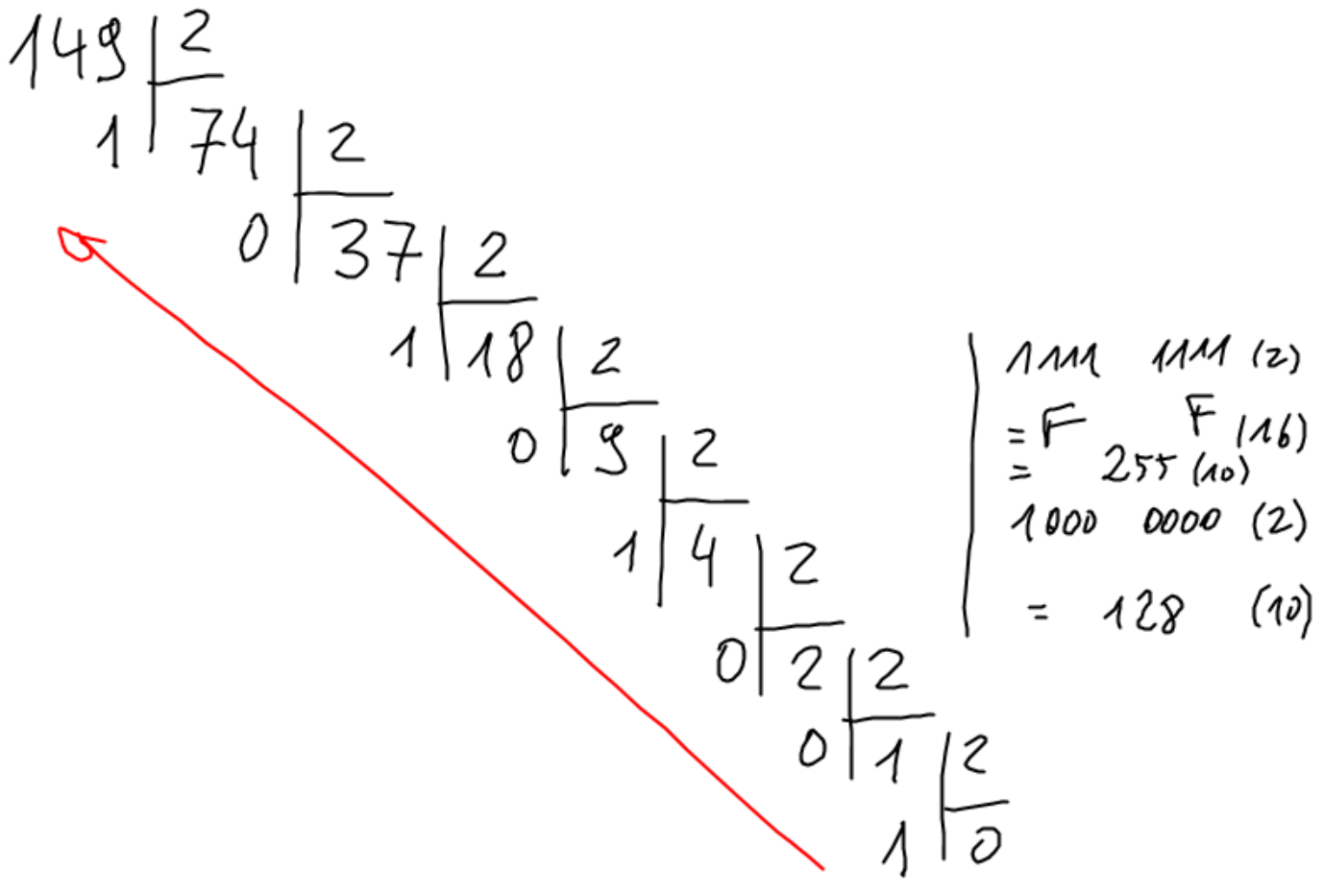
(16) B | 3 $= B3_{(16)}$

$1110\,|\,1000_{(2)} = 128+64+32+8 = 232_{(10)}$

(10) 14 | 8

(16) E | 8 $= E8_{(16)}$

$149_{(10)} : N_2 = 1001\ 0101_{(2)}$



$3FD_{(16)}$: $N_{10} = 3 \cdot 16^2 + 15 \cdot 16^1 + 13 \cdot 16^0$

2 1 0

$16^2\ 16^1\ 16^0$

$= 3 \cdot 16^2 + 15 \cdot 16 + 13$

$= 1021_{(10)}$

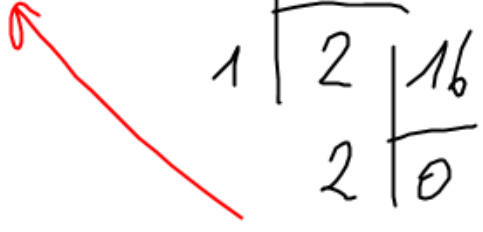
$537_{(10)} : N_{16} = 219_{(16)}$

537 | 16

9 | 33 | 16

1 | 2 | 16

2 | 0



537 | 16

33,56....

−33

0,56...

×16

$$3233_{(10)} : N_{16} = CA1_{(16)}$$

3233	16		
1	202	16	
	10	12	16
		12	0

1 A C

$CA1_{(16)}$

(10) 12 ! 10 ! 1

(2) 1100 1010 0001 (2)

8 4 2 1
1 1 1 1

9600 Bauds

= 9600 bits/s

ou $\frac{1}{9600}$ s/bit

$= 1{,}04 \cdot 10^{-4}$ s/bit

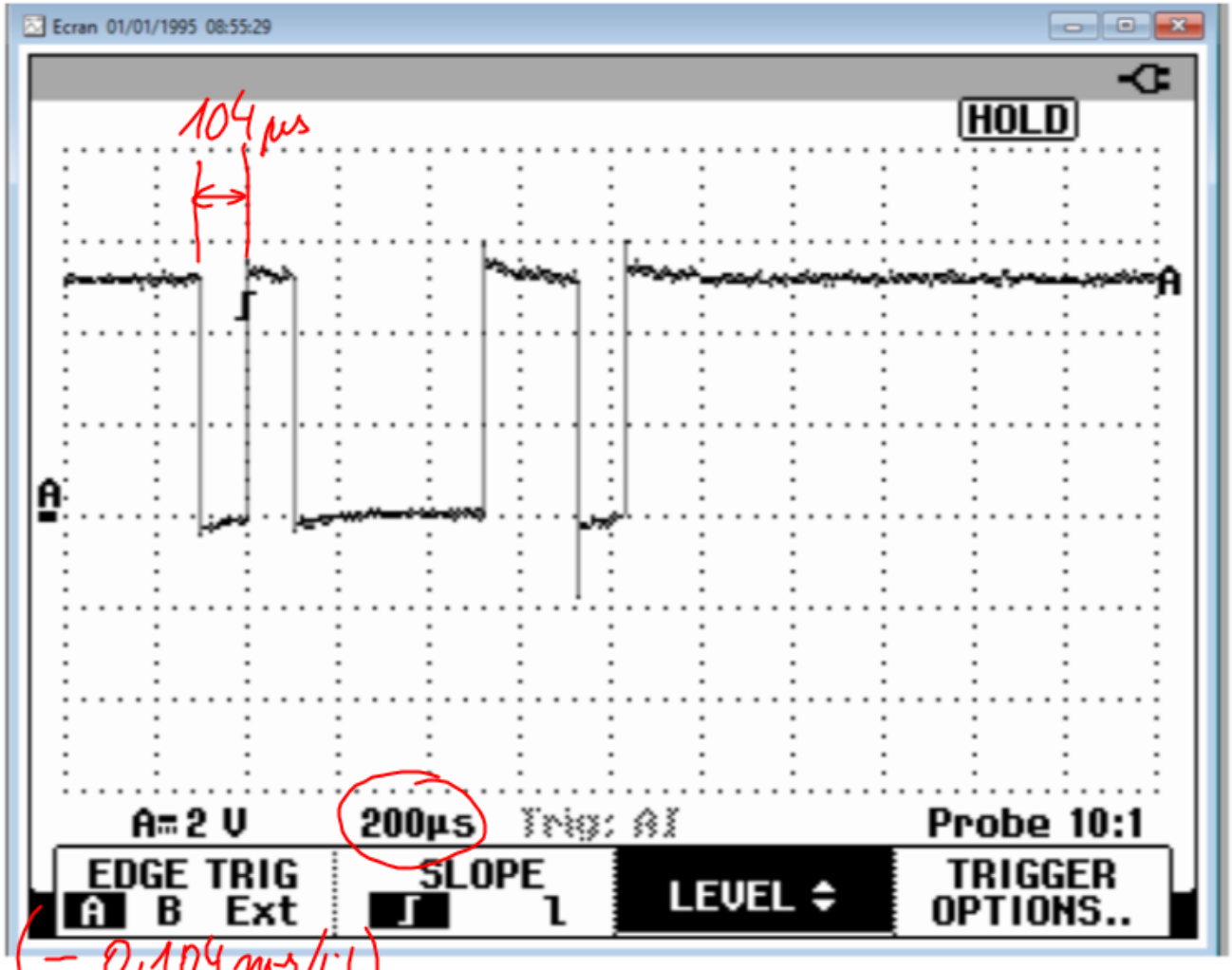
$(1\ s = 10^3\ ms)$

$= 1{,}04 \cdot 10^{-4} \cdot 10^3$ ms/bit

$= 1{,}04 \cdot 10^{-1}$ ms/bit $(= 0{,}104$ ms/bit$)$

$= 1{,}04 \cdot 10^{-4} \cdot 10^6$ µs/bit

$= 1{,}04 \cdot 10^2$ µs/bit $(= 104$ µs/bit$)$



$3,12 . 10^{8}$ N.m

$3,12 . 10^{2} . 10^{6}$ N.m

$3,12 . 10^{2}$ MN.m ou N.Mm ou kN.km

10^{3}	k
10^{6}	M
10^{9}	G

$3,12 . 10^{8}$ N/m

$3,12 . 10^{2} . 10^{6}$ N/m $= 3,12 . 10^{2} . \frac{1}{10^{-6}}$ N/m

$10^{-3} = \frac{1}{10^{3}}$

$10^{6} = \frac{1}{10^{-6}}$

$3,12 . 10^{2}$ MN/m ou N/µm ou kN/mm

$2,92 \cdot 10^{-4}$ N.m

$\hookrightarrow 2,92 \cdot 10^{-5}$ kg.m

$= 2,92 \cdot 10^{-5} \cdot 10^{3} \cdot 10^{2}$ g.cm

$= 2,92$ g.cm

$P = m \cdot g$

N — kg — m/s² (≈ 10)

$\frac{P}{g} = m$

$1\ kg = 10^{3}\ g$ ($\times 10^3$ / $/10^3$)

$1\ m = 10^{2}\ cm$

$1\ \frac{1}{m} = \frac{1}{10^{2}}\ \frac{1}{cm}$

$1\ \frac{1}{m} = 10^{-2}\ \frac{1}{cm}$

115200 Bauds (= bit/s)

$1\,s = 10^6\,\mu s$

$\frac{1}{115200}\ s/bit \simeq 8{,}68 \cdot 10^{-6}\ s/bit$

$\simeq 8{,}68\ \mu s/bit$

$10\ Gb/s = 10 \cdot 10^9\ bit/s$

$\frac{1}{10 \cdot 10^9}\ s/bit$

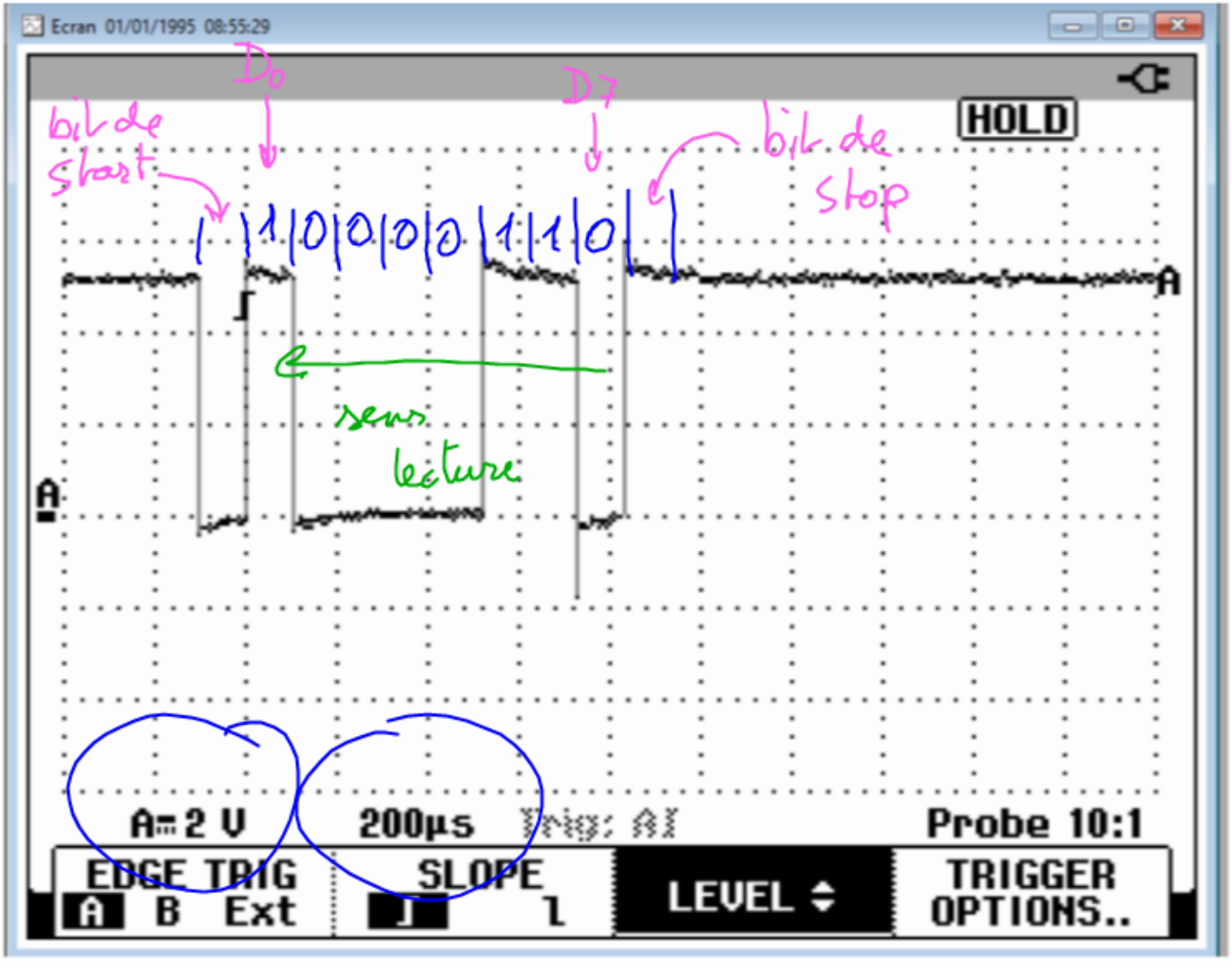
$1 \cdot 10^{-10}\ s/bit$

$10 \cdot 10^{-1} \cdot 10^{-9}\ s/bit$

$10^{-1}\ ns/bit$

$100\ ps/bit$

Protocole UART



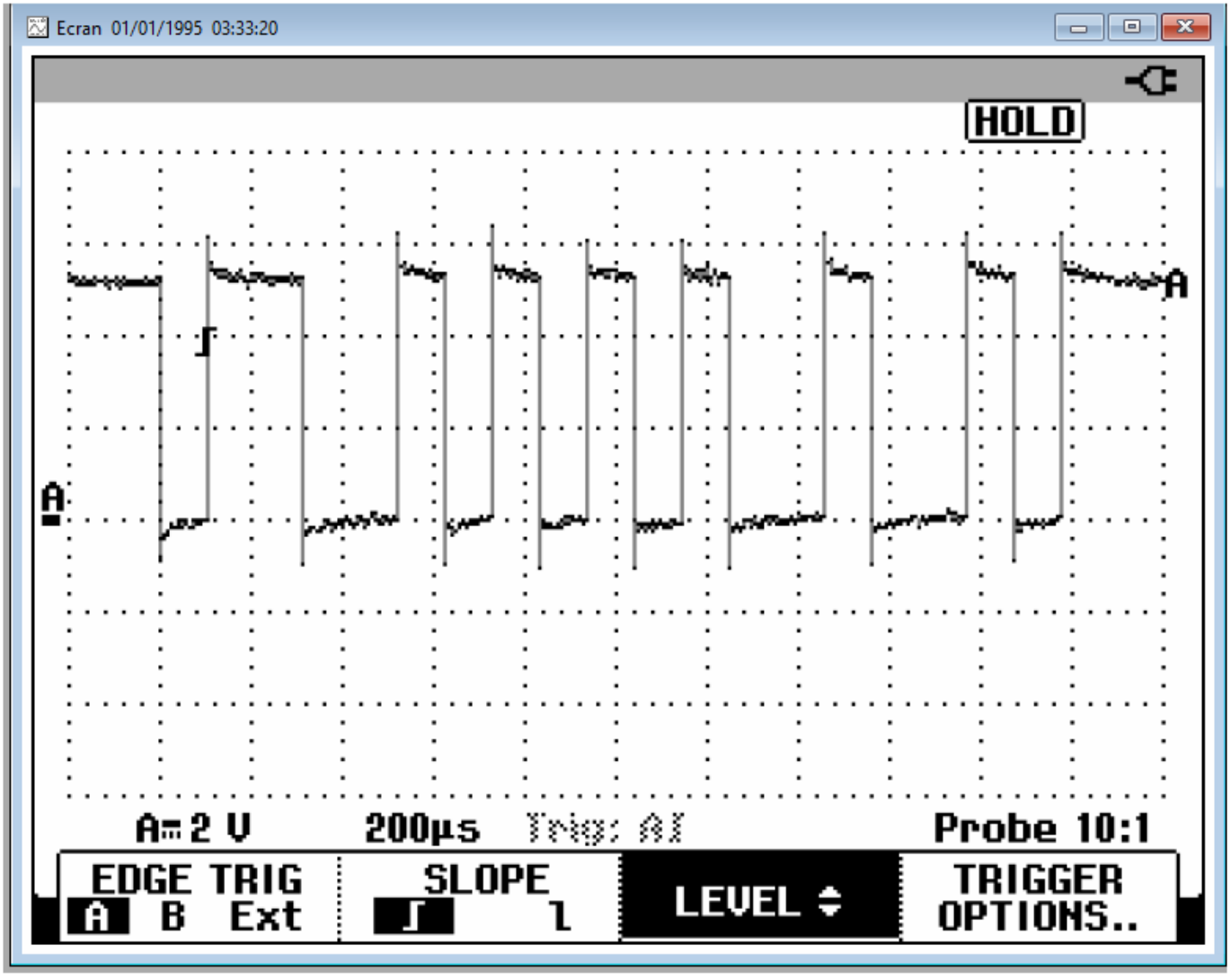
$N_2 = 0110 \mid 0001$

$6 \mid 1$

$= 61_{(16)}$

ASCII

a


Ecran 01/01/1995 03:33:20
HOLD
A
A
A= 2 V
200µs
Trig: AI
Probe 10:1
EDGE TRIG
A B Ext
SLOPE
1
LEVEL
TRIGGER
OPTIONS..