

EDICIÓ

Ajuda

2

1

DECIMAL
BINARI (Ob)
HEXADECIMAL(0x)
OCTAL (0)

3

QtARMSim version 0.4.15
(c) 2014-19 Sergio Barrachina Mir
Developed at the Jaume I University, Castellón, Spain.

Connected to ARMSim (ARMSim version info follows).
V 1.4
(c) 2014 Germán Fabregat
ATC - UJI

/home/catalama/pruebaqtarmsim.s assembled.
[0x00180008] 0xBF30 wfi
End of program reached.

Messages Memory_Dump LCD Display

Flags: n z c v

Missatges
¿Errors?

SIMULACIÓ

Memòria

4

INSTRUCCIONS

DECIMAL

Instruccions (codi màquina)

Registres

HEXADECIMAL

DADES

HEXADECIMAL

Memory & Dump

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	ASCII
ROM	0x20070000	00	00	00	00	00	00	00	00	10	00	00	20	00	00	00
ROM	0x20070010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ROM	0x20070020	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ROM	0x20070030	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
RAM	0x20070040	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
RAM	0x20070050	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
RAM	0x20070060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
RAM	0x20070070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Messages Memory_Dump LCD Display

Bolcat de Memòria

HEXADECIMAL

Visualitzador

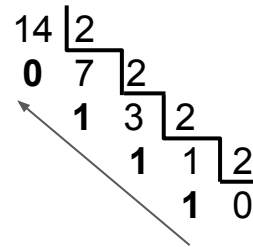
SISTEMA	BASE	VALORS	PREFIX	EXEMPLE	CÀLCUL
DECIMAL	10	0, 1, 2, 3, 4, 5, 6, 7, 8, 9	-	14	$1 \cdot 10^1 + 4 \cdot 10^0$
BINARI	2	0, 1	0b	0b1101	$1 \cdot 2^3 + 1 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0$
OCTAL	8	0, 1, 2, 3, 4, 5, 6, 7	0	016	$1 \cdot 8^1 + 6 \cdot 8^0$
HEXADECIMAL	16	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F <small>10 11 12 13 14 15</small>	0x	0xE	$E \cdot 16^0$ <small>14</small>

Direcció de mem./Registre = 1 Word = 4 Bytes = 32 Bits = 8 Hex → 0x123A5678

Instrucció Thumb = ½ Word = 2 Bytes = 16 Bits = 4 Hex → 0x123A / 0b 0001 0010 0011 1010
1 2 3 A

DECIMAL	HEXADECIMAL	BINARI
0	0	0000
1	1	0001
2	2	0010
3	3	0011
4	4	0100
5	5	0101
6	6	0110
7	7	0111
8	8	1000
9	9	1001
10	A	1010
11	B	1011
12	C	1100
13	D	1101
14	E	1110
15	F	1111

EXEMPLE: Decimal → Binari



14 = 0b 1110

Tam. Directives

DIR	WORDS	BYTES
.word	1	4
.byte	¼	1
.hword	½	2
.quad	2	8

Més Directives

- .ascii "cadena"
- .asciz "cadena" + byte 0
- .space N
- .balign N
- .align N