

FRACTIONAL PART ON 8 BITS	
	2-1 2-2 2-3 2-4 2-5 2-6 2-7 2-8
FOR A CORRECT PRINT OF THE	FRACTIONAL PART, YOU MUST DIVIDE IT BY 256 (8 SHR)
XOR 51, 51	
convertapp:	
MOV AL, EXPENSES [51]	
TEST AL, 1000000B	; check validity of the entry
TE end Of Conversion	
AND AL, 00000011B	; keep corrency
CMP AL, 000000118	; check if EUR
JE BUT NO Conversion	
MOV AL, EXPENSES [SI]	
AND AL, 011111008	; keep date (index for EXCHANGE array)
MON CONVERTED [SI], AL	; store the date
OR CONVERTED [SI], 100000	of 18; set $V=1$ and $CC=EUR$
SHR AL, 1	
SHR AL, 1	; AL - 0000000
MOV CL, 3	; because each entry of EXCHANGE is on 3 BYTES
MUL CX	; CAX> < base index of exchange array
XOR OI, OI	
ADD OI, AX	
MOV AL EXPENSES [SI]	
AND AU, 000000 118	; select the correct exchange pate
ADD DI, AX	
MOV CL, EXCHANGE [DI]	; exchange rate
XOR CH, CH	;(CX> - 00000000TTTTTTT
MOV AH, EXPENSES [SI+1]	
MOV AL, EXPENSES [31+2]	; original value (fractional part)

	MUL CX
	MOV CONVERTED [SI+1], N. ; converted (integer part)
	MOV CONVERTED [31+2], AH ; converted (fractional part)
	IMP next Conversion
eurNo	Conversion:
	MOV AL, EXPENSES [SI]
	MOV CONVERTED [SI], AL
	MOV AL, EXPENSES [SI+1]
	MOV CONVERTED [31+1], AL
	MOV AL, EXPENSES [SI+2]
	MOU CONVERTED [SI+ 2], AL
next(ionersico:
	; print old value and new value
	ADD S1, 3
	TMP convertioop
endofo	indipendia : noi peundi
	- exit

Example arrays:	
• EXPENSES	
DAY 2 CHF	
10001010000100000101110	16,1796875 -> 8,08984375
DAY3 EUR	
100011110000100100110010	9,1953125 -> 9,1953125
DAY 5 USO	
10010100111010110110001	235, 3789 0625 -> 58, 8447 265625
DAY 6 CAD	
10011001100000000010010000	128,125 -> 96, 09375
EXCHANGE	
USD CAD CHE	
[0] 0000010100001010000001	
[1] 000000000000000000000000000000000000	
[2] 01110001010000001000000	DAY 2 : CHE
0.5	
[3] 00001000000001010000000	DAY 3 : EUR (no conversion)
[4] 000000000000000000000000000000000000	
[5] 010000001000000011100000	DAT 5: USD
0.25	
[6] 101000001100000010000000	DAY 6: CAD
0.75	