BRA

BRA

< Previous instruction: BOV | Instruction index | Next instruction: BSF >

Unconditional Branch

Syntax:	[label]	BRA n		
Operands:	$-1024 \le n \le 1023$			
Operation:	$(PC) + 2 + 2n \rightarrow PC$			
Status Affected:	None			
Encodina:	1101	Onnn	nnnn	nnnn

Description: Add the 2's complement number

'2n' to the PC. Since the PC will have incremented to fetch the next instruction, the new address will be

PC+2+2n. This instruction is a

two-cycle instruction.

Words: 1

Cycles: 2

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	Read literal	Process Data	Write to PC
No operation	No operation	No operation	No operation

Example: HERE BRA Jump

Before Instruction

PC = address (HERE)

After Instruction

PC = address (Jump)

< Previous instruction: BOV | Instruction index | Next instruction: BSF >