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DINOV Branch II NOL Overnow	BNOV	Branch if Not Overflow
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Syntax: [label] BNOV n

Operands:  $-128 \le n \le 127$ 

Operation: if overflow bit is '0'

 $(PC) + 2 + 2n \rightarrow PC$ 

Status Affected: None

Encoding: 1110 0101 nnnn nnnn

Description: If the Overflow bit is '0', then the

program will branch.

The 2's complement number '2n' is added 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 then

a two-cycle instruction.

Words: 1

Cycles: 1(2)

Q Cycle Activity:

If Jump:

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

## If No Jump:

Q1	Q2	Q3	Q4
Decode	Read literal	Process	No
	'n'	Data	operation

Example: HERE BNOV Jump

Before Instruction

PC = address (HERE)

After Instruction

If Overflow = 0;

PC = address (Jump)

If Overflow = 1;

PC = address (HERE+2)

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