

# 20.56 Copying the Specified Bit of Word Label

## CPY\_BIT\_OF\_INT(\_E)

FX5S FX5U FX5U FX5UC

These functions copy the specified bit of the word label to the one of another word label.

Ladder diagram	Structured text	FBD/LD
[Without EN/ENO] 	[With EN/ENO] 	[Without EN/ENO] d:=CPY_BIT_OF_INT(s,n1,n2); [With EN/ENO] d:=CPY_BIT_OF_INT_E(EN,ENO,s,n1,n2);

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### Setting data

#### ■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s	Input	Input variable	ANY16
n1	Bit specification of input variable (Only a constant 0 to 15 can be specified.)	Input variable	INT
n2	Bit specification of output variable (Only a constant 0 to 15 can be specified.)	Input variable	INT
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(CPY_BIT_OF_INT(_E))	Output	Output variable	ANY16

### Processing details

#### ■Operation processing

- These function copy the value of the (n1)th bit of the word specified by (s) to the (n2)th bit of (d).

#### ■Operation result

##### 1. Function without EN/ENO

The operation processing is executed. The operation output value is output from (d).

##### 2. Function with EN/ENO

The following table lists the execution conditions and operation results.

Execution condition	Operation result	
EN	ENO	(d)
TRUE (Executes operation)	TRUE	Operation output value
FALSE (Stops operation)	FALSE <sup>*1</sup>	Indefinite value

\*1 When FALSE is output from ENO, data output from (d) is undefined. In that case, modify a program so that the data output from (d) is not used.

### Operation error

There is no operation error.