
***n*-bit incrementer**

X41839_en

Design a circuit that receives an n -bit number and produces the same number increased by one unit (mod 2^n). The number of bits must be a parameter of the module, with the default value as shown in the specification.

Specification

```
module incr(in, out);  
    parameter N=16;  
    input [N-1:0] in;  
    output [N-1:0] out;
```

Input

- *in* represents the n -bit input number.

Output

- *out* represents the n -bit output number.

Problem information

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