BCD to Excess 3 Code Converter

```
1
2
    library ieee;
    use ieee.std_logic_1164.all;
3
5
    entity bin to e3 is
6
    port(b: in bit_vector(0 to 3);
7
          e: out bit_vector(0 to 3));
8
    end bin_to_e3;
9
10
11 architecture dataflow of bin_to_e3 is
12 begin
13 e(\theta) \le b(\theta) or (b(1)and(b(2) or b(3)));
14 e(1) \le b(1) \times or (b(2) \circ r b(3));
15 e(2) \le not (b(2) xor b(3));
16 e(3)<= not b(3);
17 end dataflow;
```

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