

```

-- Multiplexeur 4 bits

ENTITY mux IS
  PORT
  (
    cmd      : IN  BIT;
    x        : IN  BIT_VECTOR(3 downto 0);
    y        : IN  BIT_VECTOR(3 downto 0);
    q        : OUT BIT_VECTOR(3 downto 0);
    vdd      : IN  bit;
    vss      : IN  bit);
END mux;

ARCHITECTURE vbe OF mux IS

BEGIN

WITH cmd SELECT
  q <= x WHEN "0",
      y WHEN "1";

END;

```