

FUNDAMENTOS DE COMPUTADORES I CUADERNO DE LA PRÁCTICA 4

ENTITY ffd IS

PORT(clk, d, nclr: in bit; q, qn: out bit); END ffd;

 ${\sf ARCHITECTURE}\ comportamiento\ OF\ ffd\ IS$

BEGIN

PROCESS(clk,nclr)

BEGIN

IF (nclr='0') THEN

q <= '0';

ELSIF (clk'event and clk='1') THEN q <= d;

 $qn \le not d$;

END IF;

END PROCESS;

END comportamiento;

ENTITY and 3 IS

PORT(e1, e2, e3: IN bit; s: OUT bit);

END and3;

ARCHITECTURE comportamiento OF and 3 IS

BEGIN

 $s \le e1 AND e2 AND e3;$

END comportamiento;

ENTITY and 2 IS

PORT(e1, e2: IN bit; s: OUT bit);

END and2;

ARCHITECTURE comportamiento OF and 2 IS

BEGIN

s <= e1 AND e2;

END comportamiento;

ENTITY or 2 IS

PORT(e1, e2 : IN bit; s : OUT bit);

END or2;

ARCHITECTURE comportamiento OF or 2 IS

BEGIN

 $s \le e1 OR e2;$

END comportamiento;

ENTITY inv IS

PORT(e: IN bit; s: OUT bit);

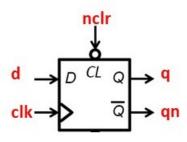
END inv;

ARCHITECTURE comportamiento OF inv IS

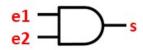
BEGIN

s <= NOT e;

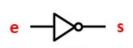
END comportamiento;











Esquema gráfico de interconexión del reconocedor
Código VHDL del reconocedor