**Sistemas Digitales 1**

# Proyecto #3: Convertidor de Códigos

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| **Fecha** | 4 Septiembre-2020 |

# Introducción

Como medida de seguridad informática, una empresa de internet ocultará los últimos 8 bits de las direcciones ip de sus páginas web:

Dirección IP: 196.5.4.,

Dirección IP en binario: 11000100.00000101.00000100.xxxxxxxx

Cuando un cliente solicite acceso a una página, su dispositivo enviará una dirección

ip de esta codificada en forma de 4 cantidades binarias: 2 de 4 bits y 2 de 1 bit.

Dependiendo del valor de estas últimas se decide cómo se operarán las dos primeras

para obtener así la parte faltante de la ip (un número de 8 bits). Para ello la empresa

necesita diseñar un decodificador mediante un circuito lógico que cumpla esta tarea.

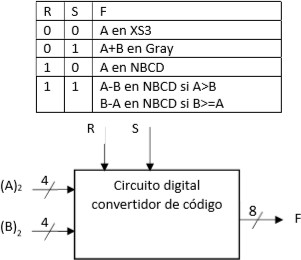
Como solución, se diseñará un circuito en donde se implementarán selectoras para

que muestren las cantidades binarias que se requieran, comparando los bits los

cuales se quiera proteger.

# Antecedentes/Descripción del proyecto

Se desea implementar un convertidor de códigos que funcionará como decodificador de la dirección ip solicitada, como parte del sistema que recibe la petición y entrega la página web correspondiente. Dicho convertidor tendrá 2 entradas de datos binarios, A y B, de 4 bits cada una, y dos entradas de control R y S, de un bit cada una. La salida F presentará el nuevo código de A o B, según las siguientes condiciones:



# Objetivo General

Diseñar e implementar un circuito digital convertidor de código Analógico Digital de 8 bits

# Objetivos Específicos

* + Diseñar el circuito Digital minimizado
  + Implementar el convertidor de código en VHDL para su simulación
  + Encontrar una buena aplicación para nuestro circuito convertidor de códigos.

# Descripción de la solución

La solución planteada consta de dos etapas:

1. Se ejecutan las 4 posibles operaciones (más abajo descritas como F1, F2, F3 y F4) independientemente las unas de las otras, haciendo uso de sumadores, comparadores y muxes según corresponda.
2. De las 4 se selecciona una sola, que será la que corresponda al valor de las entradas de control R y S. Para ello se usan 8 muxes de 4 a 1 en paralelo para una salida de 8 bits (se determinó que una salida superior a 5 bits no sería posible, por lo que los 3 bits más significativos serán siempre iguales a 0).

# Entradas y salidas

|  |  |
| --- | --- |
| **Entradas** | |
| R.H | Primera entrada de control de un bit |
| S.H | Segunda entrada de control de un bit |
| (𝐴)2 | Primer número binario de 4 bits |
| (𝐵)2 | Segundo número binario de 4 bits |

|  |  |
| --- | --- |
| **Salidas** | |
| (𝐹)2 | Resultado en binario de la operación entre A y B dependiendo de las entradas de control R y S |

* 1. **Diagrama de bloques de la solución**

Imagen que contiene texto

Descripción generada automáticamenteLink del diagrama: https://drive.google.com/file/d/1\_XjNjjMm4b5TJItImSTYhlz2ZUvjZuVN/view?usp=sharing

F1: A en XS3

F2: A+B en Gray F3: A en NBCD

F4: A-B en NBCD (si A>B)

B-A en NBCD (si B≥A)

# Descripción de bloques

F1: Convertirá A en XS3 sumándole el número 3 en binario.

F2: Sumará A y B para luego aplicar XOR (4 compuertas) entre las salidas del sumador junto con el bit 0 añadido al principio, obteniendo así el resultado en Gray.

F3: Comparará A con el número 10 en binario. Si es menor entonces permanece igual, si es mayor se añade el bit 1 al principio seguido de la resta A-10, convirtiéndolo así a NBCD.

F4: Ejecuta las restas A-B y B-A para luego seleccionar la correcta según el resultado del comparador, haciendo uso de un mux. Al resultado se le aplica el mismo procedimiento que en F3 para convertirlo en NBCD.

# Tabla de verdad del controlador

No aplica

# Expresión lógica del comportamiento del controlador

No aplica

# Ejemplos de funcionamiento

|  |  |  |  |
| --- | --- | --- | --- |
| **Caso** | **R** | **S** | **F** |
| **1** | **0** | **0** | **F1** |
| **2** | **0** | **1** | **F2** |
| **3** | **1** | **0** | **F3** |
| **4** | **1** | **1** | **F4** |

**Para todos los casos se supondrá A=14 y B=10.**

**Caso 1:** Si las estradas R y S indican un valor de 0, se sumará 3 al bit de entrada A y se activará el conversor de código convirtiéndolo en exceso de 3. La salida seria F=0100 0111=.

**Caso 2:** Cuando se tiene valores de 0 y 1 en los bits de entrada R y S respectivamente primeramente se activará un sumador para los bits A y B, para posteriormente convertirlo a grey, se debe tener en cuenta que A y B son de 4 bits cada una. La salida sería F=00010100=.

**Caso 3:** Si R y S indican valores de 1 y 0 se activará el convertidor para el bit de entrada A, convirtiéndolo en NBCD. Siendo F=0001 0100=.

**Caso4:** cuando R y S indican 1, primero se activará el comparador. Si A>B se restara

A-B para posteriormente convertirlo en NBCD, si B>=A se restara B-A para luego convertirlo a NBCD. En este caso A>B por lo tanto A-B y se mostrara como resultado 4 en NBCD, la salida del conversor seria F=0000 0100=.

1. **Circuito en Quartus Lite**

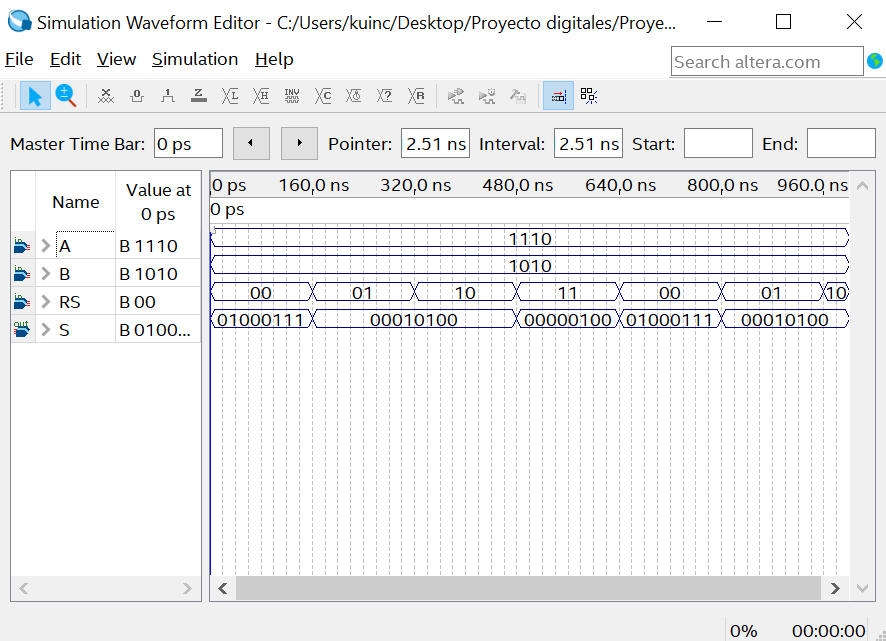
El respectivo archivo del diagrama en Quartus se halla adjunto a este documento para una mejor visualización.

![Imagen que contiene texto, mapa

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAlgCWAAD/4S8yRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA5OjA0IDA0OjM4OjMzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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vCIjKZluxIfMnvJbjazEDyooyGSNAOqlRjJXndJf12FTjQ9o41pcr6XO8s/in4HTVhokfgu8/s+41Ga21LUdat7ma7uPJRHhu45RHMJk/ecNPPDIgRgqsw2V6NcfEnwTa6TY6bplwlrBFc2scNvFYTRxoomQgACMADA+lamofEpvD91pmk6vo00HiLU5jb6fZ286SQ3rqjSOY5m2gBUVmPmKjcEKrHGc7VPjL4TuNKUz6nHp1zFfxQ3FpcgGSCWO6VJEbBK5VlYZUkcZBIwaxjFVH+7g9P67GcveVoIu+LvHmhyaXbrHetubULEfKjrn/Sou+39O/TvTfH3iTTb7RbCCCffK+taTtXy2H/MQtz3FUPFnxc8HXOmW8cWv2byNqFjhV+Yn/Soux/n269ql8deOdA1bSdPtLPUoJ7mTWtKCRoeTjULc/wAgaPZvlvys5aj5Klm7bbnnln8K9Gvf2lvGeq2Hjax0/wAR3X+nvHpOlpHq9vnTYLPyJLyRpI7i3jHkXRtTD8ks1nI/yvGJfZvhn4msvGHgnTtVsNX07X4JvMRtU0iBoLS6lSRklkhQu52GRXIO9wRyGYEE+FXHgfwZrnxl8QWNn411zRfiHe3GoWGs6naW93bpNDc2CvHZ2kz5tIryK3TTJvMgzMy6cGZdvmY9c+A3hXSPBfwr0fSvD+sQa/oivcT2Wo20UMUU0MtxJKhRYQsW0BwAY1VCBlVVSFHo4zllRjKcm5JQSuraWfXtouXutS47noNFFFeIaHlvxI+F/irWPE8viHwL4usfBur32ktpGoXF9ox1PzUR2e0ljUzxrHJA010RkMr/AGg71bYmHfDnwPD4L+JnjlE1G+1V9ThtNUlm1Fo3kRpbm+PlB1RS0cYCogcsyoiJu2ooHp9crpv/ACVTxD/2BdM/9H39buvUcPZt6en5vd+Qra3NW1AHia/Axn7Jb+ufvzfhWtWTbsD4m1Bd3ItLc7d3T55ucdunXvj2rWrFkx2CiiikWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADWUN1GaTy1/uin0UAR+Uv91fyo8pf7q/lUlFAyPyl/ur+VHlL/AHV/KpKKAI/KX+6v5UeUv91fyqSigCPyl/ur+VHlL/dX8qkooAj8pf7q/lR5S/3V/KpKKAI/KX+6v5UeUv8AdX8qkooAxvEwij0xGk2Ki3VsWZ03AYnQ5Ppj17de1ebeNPHfhi78X+FJ9P8AH9jps93ZvBD/AGfbC+kuYbuW38p4pBujjLGAsrOjho0ncDbDI6ewsoYHNeS+Kv2V/hj420Cw0XWPDbXemWNrY2VvAL+5j2Q2azpbLuWQE7FupxknLb/mJwuNqfJe1S9vIqnGnzXqX+RjQ/Er4XSa/F4ZhaS/vbrUZtPu9RurkQ3cVzbxpIG3zyJdSrtmQpLbrIiK27cifNXo9xNodvpdlpumTWO2O6t0itYNshG2ZCcKDnI6k9vvHoarx/CPw5H42uvFKRaguqXU6XVxGNVuvsc0yRJCkj2nmeQzqkUeGKZBjRh8yg12m0elKThpyBU5XZU/mc940iQ6PBlEI/tCx4aEyD/j7i7Dof8Aa6L1PAqXxd4dk8SaKbO2uY7G5S5trqKeSAzIrwzxzKGQMpIJjAOGHB61c13SzrFiIBKYWWeGdXGesciyAHBBIJXBGeQT16V4J8RNZ/aDjsNPuPD+j2cs76Tbrd2ljFbBlvJo7lpyjT3O1WgeGzRHO9MXUrmOfYEVwg6lle3qTTpOpN3a+Zh/Ej4BXnh/W/FvxA1Lx5Z+HrrWrgJPq/h3wxcLqwM9jFpkVsk0Vy8jxB/KnSIKcXCxyfwYrr/COvz/AA3+Huk2H/CXaZaabp+j3V9H/aHgq7sphZ2jIs8jW6zRiPb5seEWNAQw8tNvTndV8I/En4k6XY6R410i+l0+88UWOrvbstnc29lZpBaTyWU4jurcTQi5a5hBaO4JWEsUY+U9d348+B2oeMBp1pa6xpei6RDod54dnsrXR2A+x3PkCQQYnCwsq26hMq6rnlWxirxeIxU4qDkpJWt8tFr5I568KtGTdOz/AMzTvfFut6dpvie/uPF/h+O08Nbv7Vk/4Ru6P2fbbpcNwLvL4ikRvlz1x1BFaGvah4o8M6RNqepeKfD8FnFtBYeHrl3ZmYKiIi3hZ3ZiqqigszMFUEkCuf1f4O+IdWs/iRpz+JdNj0zxnBIsiDSJPOtZXs4bTeH+07WUJDu27Qct97AxWr4k+HGv+OfDel6R4g8QWMkMN2t1e/2ZYT2f2ny9zwKjC5MkJSUQy7kkyTDjgMRXn81TXQy9pWs/c1/4P+Rl698TLzw5/YrXnjXw+9vq9vJe2l3aeGby5tzbJ5e+4eaO7ZIoVE0RMrsqAMDuxk12XhnRdQs/Eurajq2q2eo31zZ2tv5dlYvapHHG9wynDSybiTK/cY2jivNdR/Z11W+0bStFXxRZxaPZ6TqXh1of7KcyDTLuSHEUT+f8skUUEcayOJM43OrEnPq0OlaxDdPP/aFkWeKKMj7E+PlZix/1vcNx6Y79KdN1G3zqw6dSq2+eNi1b7v8AhJL7O7Z9lgx0253zZx3z0znjpjvWpWbp+mzwXtxd3UsM08yJHuhhMfyqzlQcsxP3z39eOa0q3Z0R2CiiikWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUlLRQAmKWiigApMUtFACbaMUtFACYopaKAExS0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/9k=)

1. **Diagramas de tiempo**

Se simuló el circuito para A=14 y B=10.



1. **Código VHDL**

De igual forma, los archivos VHDL ocupados para el proyecto se encuentran adjuntos a este documento.

Bloque F3 (Conversión de A en NBCD):

*library IEEE;*

*use IEEE.STD\_LOGIC\_1164.all;*

*use IEEE.STD\_LOGIC\_signed.all;*

*ENTITY f3 IS*

*PORT (a : IN std\_logic\_vector(3 DOWNTO 0);*

*salida: out std\_logic\_vector(7 DOWNTO 0));*

*END f3;*

*ARCHITECTURE sol OF f3 IS*

*signal c: std\_logic;*

*signal suma: std\_logic\_vector(3 DOWNTO 0);*

*signal igual, mayor, menor: std\_logic;*

*signal sal: std\_logic\_vector(3 DOWNTO 0);*

*component comparador*

*PORT ( A,N: IN STD\_LOGIC\_VECTOR(3 DOWNTO 0);*

*igual,mayor,menor: OUT std\_logic);*

*END component;*

*component SUM*

*PORT (a : IN std\_logic\_vector(3 DOWNTO 0);*

*b : IN std\_logic\_vector(3 DOWNTO 0);*

*salida : OUT std\_logic\_vector(3 DOWNTO 0);*

*cout: out std\_logic);*

*END component;*

*component MUX\_2a1*

*PORT (e : IN std\_logic;*

*a : IN std\_logic\_vector(3 DOWNTO 0);*

*b : IN std\_logic\_vector(3 DOWNTO 0);*

*salida: out std\_logic\_vector(3 DOWNTO 0));*

*END component;*

*BEGIN*

*U1: comparador port map(a, "1001", igual, mayor, menor);*

*U2: sum port map(a, "0110", suma, c);*

*U4: mux\_2a1 port map(mayor, a, suma, sal);*

*salida(3)<=sal(3);*

*salida(2)<=sal(2);*

*salida(1)<=sal(1);*

*salida(0)<=sal(0);*

*with mayor select*

*salida(4)<= '0' when '0', c when '1';*

*salida(5)<='0';*

*salida(6)<='0';*

*salida(7)<='0';*

*END sol;*

Bloque convertidor de Binario a Gray:

*library IEEE;*

*use IEEE.STD\_LOGIC\_1164.all;*

*use IEEE.STD\_LOGIC\_signed.all;*

*ENTITY gray\_converter IS*

*PORT (a : IN std\_logic\_vector(4 DOWNTO 0);*

*salida: out std\_logic\_vector(4 DOWNTO 0));*

*END gray\_converter;*

*ARCHITECTURE sol OF gray\_converter IS*

*BEGIN*

*salida(4)<= a(4) XOR '0';*

*salida(3)<= a(3) XOR a(4);*

*salida(2)<= a(2) XOR a(3);*

*salida(1)<= a(1) XOR a(2);*

*salida(0)<= a(0) XOR a(1);*

*END sol;*