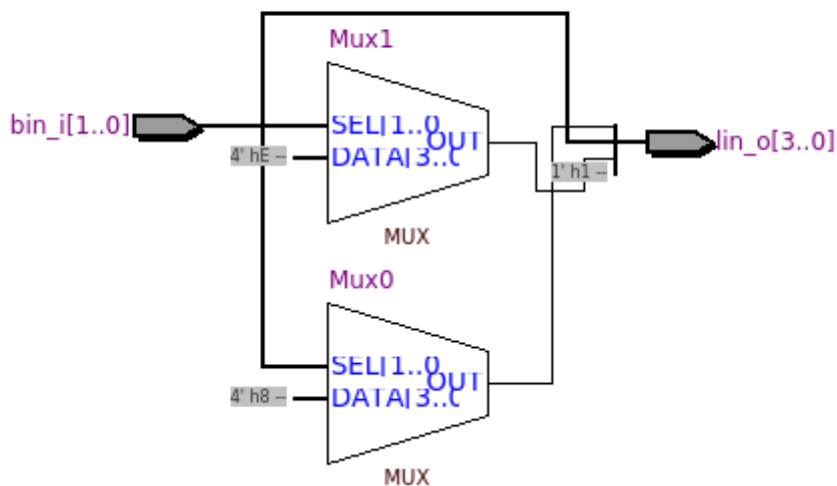


CSN Labo 1 Denis Bourqui

Vues RTL et Technology de la synthèse du composant Bin-Lin 2 à 4 de la description par flot de données



Description VHDL par flot de données du transcodeur Bin-Lin 3 à 8 en utilisant l'instruction `when .. else` (flot_don).

```
architecture flot_don of bin_lin_3to8 is
begin
    lin_o(0) <= '1' when true else
               '0';
    lin_o(1) <= '1' when bin_i >= "001" else
               '0';
    lin_o(2) <= '1' when bin_i >= "010" else
               '0';
    lin_o(3) <= '1' when bin_i >= "011" else
               '0';
    lin_o(4) <= '1' when bin_i >= "100" else
               '0';
    lin_o(5) <= '1' when bin_i >= "101" else
               '0';
    lin_o(6) <= '1' when bin_i >= "110" else
               '0';
    lin_o(7) <= '1' when bin_i = "111" else
               '0';
end flot_don;
```

Log de Questasim de la simulation automatique de la description par flot de données du transcodeur Bin-Lin 3 à 8.

```
VSIM 2> run -all
# ** Note: debut de simulation
#   Time: 0 ns   Iteration: 0   Instance: /bin_lin_2to4_tb
# ** Note: *** VOUS ETES LES MEILLEURS ***
#   Time: 500 ns   Iteration: 0   Instance: /bin_lin_2to4_tb
# ** Note: *** BRAVO, pas d'erreur ***
#   Time: 500 ns   Iteration: 0   Instance: /bin_lin_2to4_tb
```

VSIM 3> |

	01		10	1
	0011		0111	1
	0011		0111	1
	01		10	1
	0011		0111	1

Vues RTL et Technology de la synthèse du transcodeur Bin-Lin 3 à 8 pour la description par flot de données.



Programmation de la carte avec Bin-Lin_3to8

Programmer - /home/reds/Documents/csn/lab0/lab1/bin_data/bin_jin/pr_cpld/mav_top_3to8 - mav_top_3to8 - [Chain1.cdf]*


File Edit View Processing Tools Window Help

Hardware Setup... [USB-Blaster (1-1.5)] Mode: JTAG Progress: 100% (Successful)

☐ Enable real-time ISP to allow background programming (for MAX II and MAX V devices)

File	Device	Checksum	Usercode	Program/Configure	Verify	Blank-Check	Examine	Security Bit	Erase	ISP CLAMP	IPS File
output_files/mav_top_3to8.pof	5M570ZF256	00344274	0034423A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CFM				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
UFM				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Start Stop Auto Detect Delete Add File... Change File Save File Add Device Up Down

TDI →  TDO

5M570ZF256