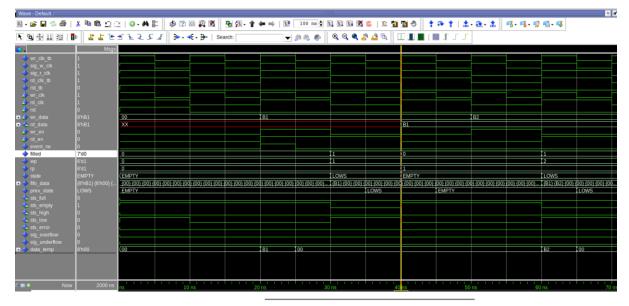
Trabalho 2 - FIFO ASYNC

Disciplina: Projeto de Sistemas Integrados II

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```
# vsim -wir /sim/illo async to -voptargs=""+acc"" -wirdereteonquit
fifo async tb
# Start time: 21:14:49 on May 27,2025
# ** Note: (vsim-3813) Design is being optimized due to module reco
mpilation...
# Loading std.standard
# Loading std.textio(body)
# Loading ieee.std logic 1164(body)
# Loading ieee.std logic arith(body)
# Loading ieee.std logic unsigned(body)
# Loading work.fifo async tb(fifo async tb)#1
# Loading work.fifo async(rtl)#1
# ** Warning: Tentativa de leitura em FIFO vazia (UNDERFLOW!)
    Time: 100 ns Iteration: 0 Instance: /fifo async tb/fifo
# ** Warning: Pressione o RST (ERROR!)
    Time: 970 ns Iteration: 0 Instance: /fifo async tb/fifo
# ** Warning: Pressione o RST (ERROR!)
    Time: 980 ns Iteration: 0 Instance: /fifo async tb/fifo
# ** Warning: Pressione o RST (ERROR!)
    Time: 990 ns Iteration: 0 Instance: /fifo async tb/fifo
# ** Warning: Pressione o RST (ERROR!)
    Time: 1 us Iteration: 0 Instance: /fifo async tb/fifo
# ** Warning: Pressione o RST (ERROR!)
    Time: 1010 ns Iteration: 0 Instance: /fifo async tb/fifo
# ** Warning: Pressione o RST (ERROR!)
    Time: 1020 ns Iteration: 0 Instance: /fifo async tb/fifo
VSIM 2>
```



Síntese - Cadence Genus:

 Acessando via SSH à paxos, você deverá carregar o módulo do Genus no Terminal aberto.

> source /soft64/source_gaph module load genus genus

Definição da biblioteca que será utilizada neste projeto.

 $set_db\ library\ /soft64/design-kits/stm/65nm-cmos065_536/CORE65GPSVT_5.1/libs/CORE65GPSVT_nom_1.00V_25C.lib$

 Leitura do(s) arquivo(s) VHDL que compõe o projeto. Neste exemplo o código fonte foi nomeado como "fifo_sync.vhd"

read_hdl -vhdl fifo_sync.vhd

 Elaboração do projeto. Neste exemplo a entidade do projeto foi nomeada como "fifo_sync".

elaborate fifo_sync

```
Gegnus: root: 5> read hold - whold fife async.vhd warning: Initial values are ignored for synthesis. [WIDL-639]

in file 'fife async.whd' on line 37.

in the specified construct has no effect on synthesis. In some cases (such as 'after' clauses in signal assignments) may cause a mismatch between and s interpretation.

Warning: Initial values are ignored for synthesis. [WIDL-639]

in file 'fife async.whd' on line 38.

Warning: Initial values are ignored for synthesis. [WIDL-639]

in file 'fife async.whd' on line 39.

Warning: Initial values are ignored for synthesis. [WIDL-639]

in file 'fife async.whd' on line 39.

Warning: Initial values are ignored for synthesis. [WIDL-639]

in file 'fife async.whd' on line 39.

Warning: Initial values are ignored for synthesis. [WIDL-639]

in file 'fife async.whd' on line 49.

Warning: Initial values are ignored for synthesis. [WIDL-639]

in file 'fife async.whd' on line 49.

Warning: Initial values are ignored for synthesis. [WIDL-639]

in file 'fife async.whd' on line 49.

Warning: Concurrent assertion statements are ignored for synthesis. [WIDL-645]

in file 'fife async.whd' on line 59.

Warning: Report statements are ignored for synthesis. [WIDL-645]

in file 'fife async.whd' on line 83.

Warning: Report statements are ignored for synthesis. [WIDL-643]

in file 'fife async.whd' on line 83.

Warning: Report statements are ignored for synthesis. Some constructs (such as 'after' clauses in signal assignments) may cause a mismatch between simulation.

Warning: Report statements are ignored for synthesis. Some constructs (such as 'after' clauses in signal assignments) may cause a mismatch between simulation and synthesis.

Warning: Report statements are ignored for synthesis. Some constructs (such as 'after' clauses in signal assignments) may cause a mismatch between simulation and synthesis.

Warning: Report statements are ignored for synthesis. [WIDL-643]

in file 'fife async' from file 'fife async whd'

In rue 'tuo async who on time tos.

@genus:root: 6> elaborate fife asy
```

Síntese Lógica para Células Genéricas:

syn_generic

• Síntese Lógica para células da biblioteca alvo do projeto:

syn_map

Ambos juntos ao acoplados ao zip.