

* Example:
integer my court; 0;
integer my court; 0; initial
while (my-count <= 255) begin
begin
begin Sdisplay ("My count: "/d", my count); my count = my count + 1; end end
my-count = my-count+1;
end
end
x "for" loop
· Syntan: for leaps1; enps2; enps3)
sequential statement;
· The "for" loop consists of three parts:
· The "for" loop consists of three parts: i) An initial condition (expr. 1).
ii) I check to see if the terminating condition
is true (esps2).
iii) A procedural assignment to check change the value of the control variable (expr3).
the value of the control variable (expr3).
* Example:
reg [100: I] data;
integer i;
initial
for (i=1; i=100; i=i+1) $data(i)=1'60;$
·Note: "i++" is not available in Vocilog.
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* "Repeat" Syntan: repeat (enpression) sequential statement;
sequential statement;
Différence between "repeat" & "while "for"
Difference between "repeat" lo "while "for" -> "while" / for" enecutes the loop based on son
- CONOLIVEN
repeat" executes the loop a fixed no. of
times.
· repeat (enpression) constant
repeat (enpression) contant sequential statement; variable
Assignal
Complete the transfer of the control
s can also be "begin-end".
· Line Date of the state of the
· It "enpression" is a variable, the its value is take
which was present at start of "repeat" block. i.e. during execution of repeat block, even if
- 1.e. during execution of repeat block, even if
value of expression variable change, only the
considered '
Communica
* Example:
reg clock;
initial
begin
clock = 1/60;
repeat (100)
#5 clock = ~ clock; /leverate only 50
#5 clock = ~ clock; // leverate only 50

* forever"
· Syntax: Jorever seguential-statement;
sequential-statement;
forever 'is equivalent to while (1)
· Example
reg clk;
reg clk;
begin
dk = 1/60;
Janever 11 - 11 10 1/2
begin $dk = 1/60;$ farever #5 $dk = \sim clk;$ / Period = 10 units.
end
* Other Constructs in Verilog
Tomes Consumos in verif
. # (time-value) -> makes a block suspend for
. # (time-value) -> makes a block suspend for "time-value" units of time
· @ (event-expression) -> makes a block suspend until
· @ (event-expression) -> makes a block suspend until
· ·
posedge of any transition from 0, x, z to 1' salso transition from 0 to x, z
Lake transition from 0 to x, 2
1 pos edge negedge
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* Examples

(a) (in) in" changes

(a) (a or b or c) any of a, b, c changes

(a) (a,b,c)

(a) (posedge all) the edge of alk

(a) (x) any variable changes

* Laboratory * Tal Tasks

1) D-flipflop with synchronous set to reset

2) D-flipflop with asynchronous set to reset