

Scalars and Vectors	
net ar reg declarations without a ran	ge
specification is considered 1- bit wide	and
is a scalar, of a range is superified	,
men me met ær neg socommes a mullir	oit-
envity known as a voctor	
voctor Scalar	
no[3]	
mie [3:0] no [2] mil	
- no[1]	
- no [0]	
reg(2:07 do [] 1] reg d!	
3 2 1 0 index	
Trange gives ability to address individ	nal
bits in a vector.	
une [obst: 186] name;	
inkeger my-m8b;	
vine (18:0] priderity	
vivre [my_msb:2] prior; //illegal	
Total birth and a state of the	
on less than most value.	
and make the state of the state	

Service				
Bit	201	0	n 1- 1	
9	-	W		1

neg [7:0] addn;
addn [0]=1;
addn (3]=0;
addn [8]=1;

Pour select

A range of consigous bits can se selected and is known as a part-select.

Two part selects.

· indexed.

neg [31:0] dddn;
addn [23:16] = 8'h23;

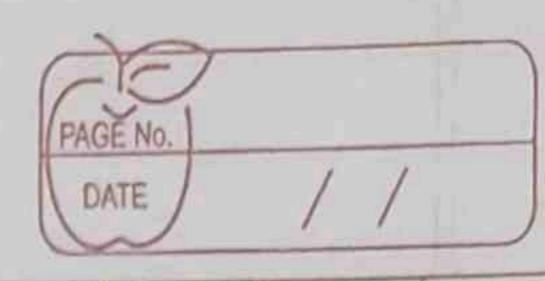
1/ bits 23 to 16 mill be replaced by the new value 1 h 23 -> constant part - select.

[(8rant-bit) + : (midth)]

//increments from Start-bit

(8rant-bit) - : (midth)]

// decrements from Start-bit



mædule des; neg [31:0] data; and the state in the second second and the second Marin and Marin David District Addition of the initial begin data = 32'h FACE _ CAFE; you (i=0, illi, itt) begin \$ display ("data [8"1.0d +: 8] = 0x"/.0h", data (8*; +:8]); \$ display ("data [7:0] = 0x1.0h", data (7:0]); \$ display ("data [15:8] = 0x:/. 0h", data [15:8]); \$ display ("dota [23:16] = 0x".0h", data [23:16]); \$ display ("daha (31:24) = 0x1.0h", daha (31:24)); Simulation 1009 4012 422 - A - - - ncsim> run 11 ~dara [8 * 0 + 8 ° 8 * 0] data [8#0+:8] = 0xfe 11~dara [8*, +8: 8*1] data [8*1 +: 8] = 0 x ca 1, ~ data [8*2+8:8*2] data [8 = 2 + : 8] = 0 x Ce dova [8"3+:8] = 0xfa // ndata [8"3+8:8"3] THE THE STATE OF T data [7:0] = 0xfe data [15:8] = 0xca data [23:16] = 0xce dova [31:24] = 0 xfa ncoin: "W, Priguze: Simulation is complete

12005

Teacher's Signature:....