

* why 2-state insu? un generation stemulus expirient manuel, dess memory consumpt mode faster working, and easy to Handle. ! Rused at grovetor sale # fowe State Defatyper's · allowed value all 0,1,x,Z · Julourd dataty per from virtog seg, wirt, integer · Additional datatype "logic" il introduced in SV. · dogic | = can be colliday improved sigister datatype * default value is x'

size is 1-bit * Can be declared as vector & single datatype can be used as both continuous and procedured statement limitation of logic

· closen't support multi-driver

Con ditions

unitial begin a=1; 31 bit founcated value to8-617 a= 11; -> All post are I valeu used can define size for logic using recta from et: logic userous module and gate (input logic a, s, output logic c); assign c= abb; endmodule always @ (*) c= a(b; endmodule c= also; { x not a loved c=alb; linbgic (#) 2 state Datatype: Datatype size type unsigned To value 1-bit unsigned Byte signed 8 32-bit int -64 real shortreal 32 millione 64

sig [7:0] a;

* sug, wise, bit blogic com be declared vector. (their size is 1-bit) integer & int 451 de astate x' refine o' bit[7:0] a; byte b; unsigned signed. 0 to 227 -12 to 127 & real & ocalfine nodifference, finter drangaste used in sim purpose bit a; a= 1'bx; give Zero but not module exi, intai, int unsigned b usit signed [7:0] c; unitical begin a= -32/d127; b= 1; C='b; endmodule

int a; Jugic [31:0) b= 'Z' initial legin. b= 32/6032-5678; if (funtnown (b)) Edisplay ('bis un known'); folisplay ("b is known!"); end module. (#) "Real & noid type: used in functions, to supplies seturn type. - seal included from virilag, great same at double in c'. Addition to CV & > short-seal.
> realtime; ! real le realtime are
interchangeable France used as geturn type of functions to indicate nothing or sicherned. is defe the frings In system venilog

Extraction wid diplay; folisplay ("Hello") V october raduli, & teris agenes ever endunction ext noted can also be ensed in typelasting & to remove netwen (ex) file extension & write a sv code; (a) deduce an the following datatypes logic lit, byth, ant, shortint, largint. (6) Sprint the defuelt value, size. of lace datatype @ donoue the 'z' & 'z' in byte, and print this value Ans: module defalt pami, wit as logic bi byte c', Shortint di, ant e; largint f; initial begin & desplay (bit %od, %lob, \$Lits (a), a); asper (logic ay sire = 1.0d, value = 1.6, \$bits (b), 6); Illy for other andmadule

Ildning X22 to byte byte [7:0] bytewith-xi, -11- [7:0] -11-E; initial Legin -tytewith-x = 8'b 1x0x -1x0x; -11-5= 81P1505+1505; gens 12202 -) Morlable as logic to frist