34th Day

Types Of Constraints-Part2

Distribution Constraints

```
class msd;
 rand int a;
 constraint c1 {a dist{7:=3,6:=12,13:=6};}
endclass


module tb;
 initial
  begin
   msd m=new();
   repeat(15)
   begin
   m.randomize();
    $display("randomized values of a=%0d",m.a);
   end
  end
endmodule
```

Simulation

Inline constraint

```
class msd;

  rand int a,b,c;

  constraint c1{c==a+b;}

endclass

module tb;
  msd m=new;

  initial
   begin
```

```
    m.randomize with {a==5;b==10;};

    $display("a=%0d,b=%0d c=%0d",m.a,m.b,m.c);

  end


endmodule
```

Simulation

```
Chronologic VCS simulator copyright 1991-2023
Contains Synopsys proprietary information.
Compiler version U-2023.03-SP2_Full64; Runtime version U-2023.03-SP2_Full64;  Apr 24 09:22 2025
a=5,b=10 c=15
          V C S   S i m u l a t i o n   R e p o r t
Time: 0 ns
CPU Time:      0.420 seconds;      Data structure size:   0.0Mb
Thu Apr 24 09:22:29 2025
```