

## StatsPoissonCDF

### Examples

```
Function AllPermutations (num)
    Variable num

    Variable i, nf=factorial (num)
    Make/O/N=(num) wave0=p+1, waveA, waveB=p

    Print wave0
    for(i=0;i<nf;i+=1)
        waveA=wave0
        if(statsPermute(waveA, waveB, 1)==0)
            break
        endif
        print waveA
    endfor
end

Executing AllPermutations(3) prints:
wave0[0]= {1,2,3}
waveA[0]= {1,3,2}
waveA[0]= {2,1,3}
waveA[0]= {2,3,1}
waveA[0]= {3,1,2}
waveA[0]= {3,2,1}
```

### See Also

Chapter III-12, **Statistics** for a function and operation overview.

## StatsPoissonCDF

**StatsPoissonCDF(x, λ)**

The StatsPoissonCDF function returns the Poisson cumulative distribution function

$$F(x; \lambda) = \sum_{i=0}^x \frac{\exp(-\lambda)\lambda^i}{i!}, \quad x = 0, 1, 2, \dots$$

### See Also

Chapter III-12, **Statistics** for a function and operation overview; the **StatsPoissonPDF** and **StatsInvPoissonCDF** functions.

## StatsPoissonPDF

**StatsPoissonPDF(x, λ)**

The StatsPoissonPDF function returns the Poisson probability distribution function

$$f(x; \lambda) = \frac{\exp(-\lambda)\lambda^x}{x!}, \quad x = 0, 1, 2, \dots$$

where  $\lambda$  is the shape parameter.

### See Also

Chapter III-12, **Statistics** for a function and operation overview; the **StatsPoissonCDF** and **StatsInvPoissonCDF** functions.

## StatsPowerCDF

**StatsPowerCDF(x, b, c)**

The StatsPowerCDF function returns the Power Function cumulative distribution function

$$F(x; b, c) = \left(\frac{x}{b}\right)^c$$

where the scale parameter  $b$  and the shape parameter  $c$  satisfy  $b, c > 0$  and  $b \geq x \geq 0$ .