Performance Modeling of Computer Systems and Networks

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Sample Statistics
Examples

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1

seed 123456789

stream 0 Uniform(1, 2):

```
1.05
1.13
1.71
1.30
1.86
1.14
1.66
1.60
1.99
1.85
```

```
for a sample of size 10
mean ................ =   1.529
standard deviation ... =   0.327
minimum ............. =   1.050
maximum ............. =   1.990
```

Uniform(1, 2):
media 1.5, dev stand 0.2887

stream 2 (Uniform(0, 1.5)+Uniform(0, 1.5)):

```
1.12
2.07
1.80
2.34
1.02
0.08
0.17
0.82
1.13
1.92
```

```
for a sample of size 10
mean ................ =   1.247
standard deviation ... =   0.736
minimum ............. =   0.080
maximum ............. =   2.340
```

Uniform(0, 1.5)+Uniform(0, 1.5):
media 1.5, dev stand 0.6124

2

seed 123456789

stream 0 Uniform(1, 2):

```
for a sample of size 10
mean ................. =   1.529
standard deviation ... =   0.327
minimum .............. =   1.050
maximum .............. =   1.990
```

```
for a sample of size 100
mean ................. =   1.444
standard deviation ... =   0.286
minimum .............. =   1.010
maximum .............. =   2.000
```

Uniform(1, 2):
media 1.5, dev stand 0.2887

stream 2 (Uniform(0, 1.5)+Uniform(0, 1.5)):

```
for a sample of size 10
mean ................. =   1.247
standard deviation ... =   0.736
minimum .............. =   0.080
maximum .............. =   2.340
```

```
for a sample of size 100
mean ................. =   1.523
standard deviation ... =   0.624
minimum .............. =   0.080
maximum .............. =   2.690
```

Uniform(0, 1.5)+Uniform(0, 1.5):
media 1.5, dev stand 0.6124

3

seed 123456789

stream 0 Expo(2):

```
0.11
0.28
2.47
0.72
3.92
0.29
2.18
1.84
10.52
3.76
```

```
for a sample of size 10
mean ................. =   2.609
standard deviation ... =   2.950
minimum .............. =   0.110
maximum .............. =  10.520
```

stream 2 Hyperexpo(1.5, 0.1):

```
0.3823
2.4471
1.7907
2.8157
0.0475
0.2262
0.4697
0.0034
0.0041
2.1068
```

```
for a sample of size 10
mean ................. =   1.029
standard deviation ... =   1.067
minimum .............. =   0.003
maximum .............. =   2.816
```


4

seed 123456789

stream 0 Expo(2):

```
for a sample of size 10
mean ................ =   2.609
standard deviation ... =   2.950
minimum ............. =   0.110
maximum ............. =  10.520

for a sample of size 100
mean ................ =   1.730
standard deviation ... =   2.033
minimum ............. =   0.030
maximum ............. =  12.180
```

stream 2 Hyperexpo(1.5, 0.1):

```
for a sample of size 10
mean ................ =   1.029
standard deviation ... =   1.067
minimum ............. =   0.003
maximum ............. =   2.816

for a sample of size 100
mean ................ =   1.770
standard deviation ... =   4.268
minimum ............. =   0.003
maximum ............. =  25.375
```


5

seed 123456789

stream 0 Expo(2):

```
0.11
0.28
2.47
0.72
3.92
0.29
2.18
1.84
10.52
3.76

for a sample of size 10
mean ................ =   2.609
standard deviation ... =   2.950
minimum ............. =   0.110
maximum ............. =  10.520
```

stream 2 BP(2, α=1.5, k=0.7285, p=100):

```
1.00
0.99
1.07
5.12
0.94
3.04
1.33
6.85
1.40
0.76

for a sample of size 10
mean ................ =   2.250
standard deviation ... =   2.002
minimum ............. =   0.760
maximum ............. =   6.850
```


6

seed 123456789

stream 0 Expo(2):

```
for a sample of size 10
mean ................ =   2.609
standard deviation ... =   2.950
minimum ............. =   0.110
maximum ............. =  10.520
```

```
for a sample of size 100
mean ................ =   1.730
standard deviation ... =   2.033
minimum ............. =   0.030
maximum ............. =  12.180
```

stream 2 BP(2, α=1.5, k=0.7285, p=100):

```
for a sample of size 10
mean ................ =   2.250
standard deviation ... =   2.002
minimum ............. =   0.760
maximum ............. =   6.850
```

```
for a sample of size 100
mean ................ =   1.748
standard deviation ... =   1.947
minimum ............. =   0.730
maximum ............. =  17.540
```