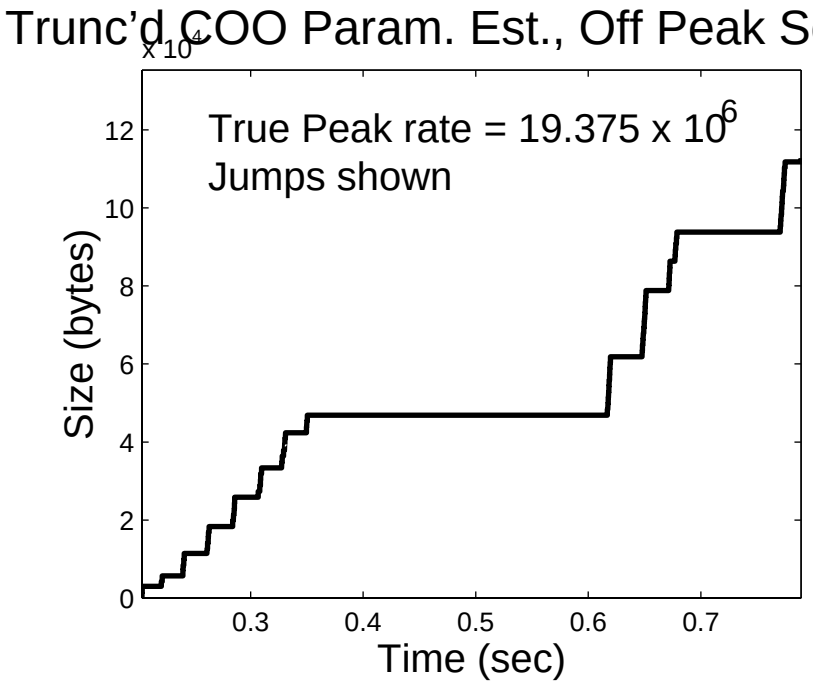
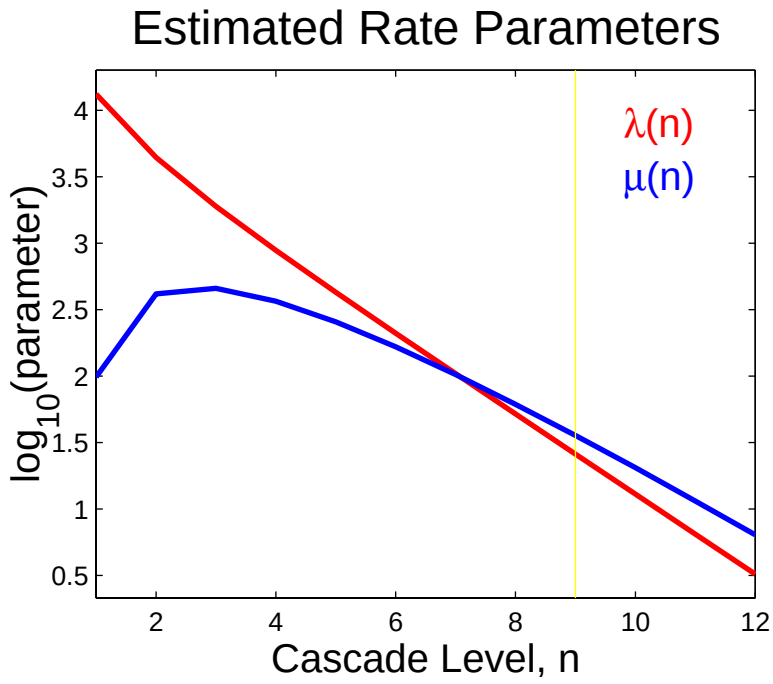
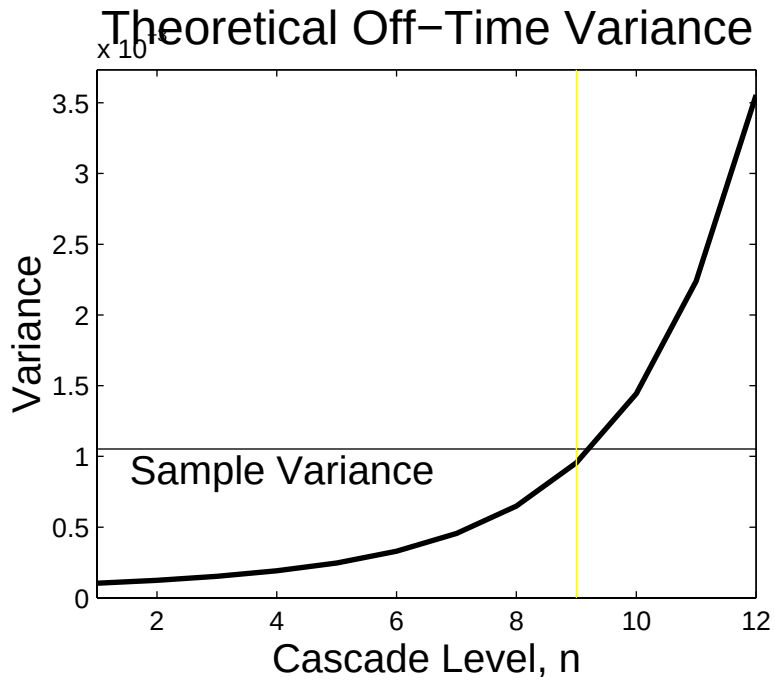
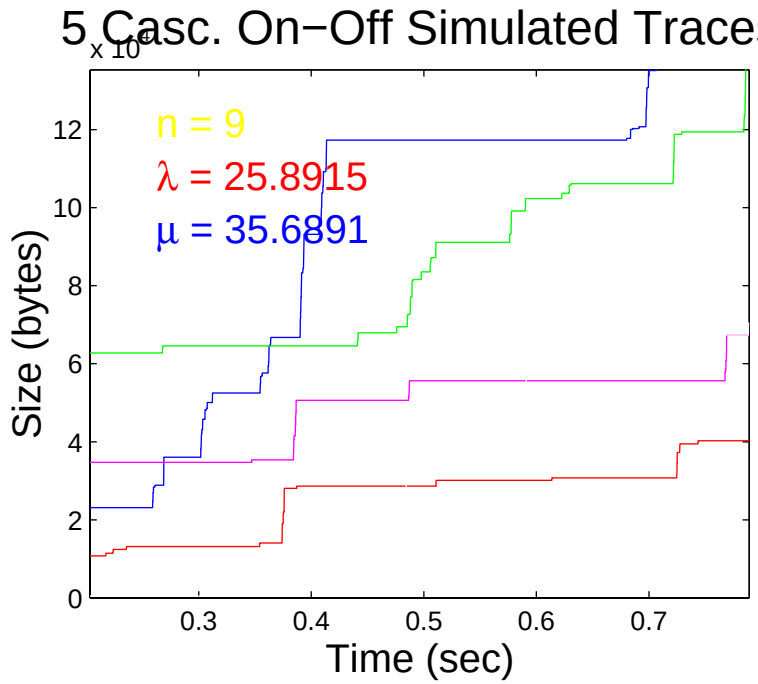
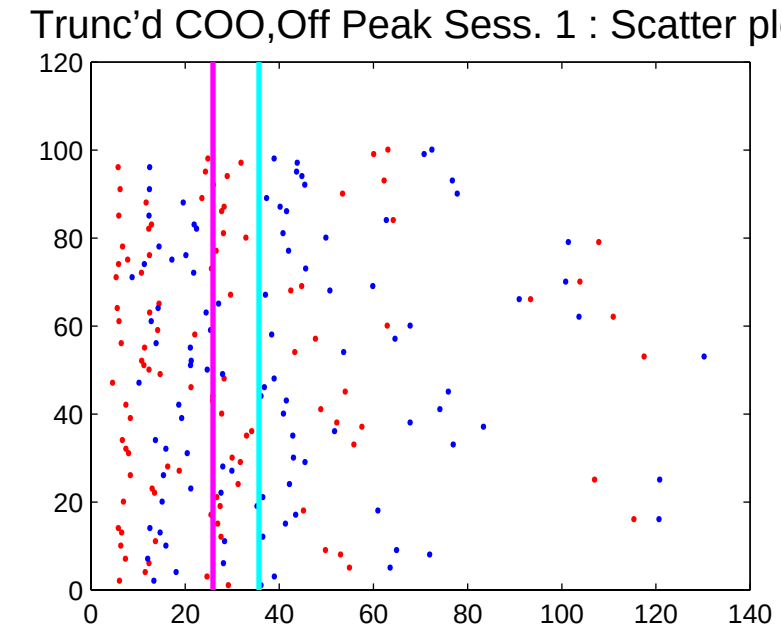
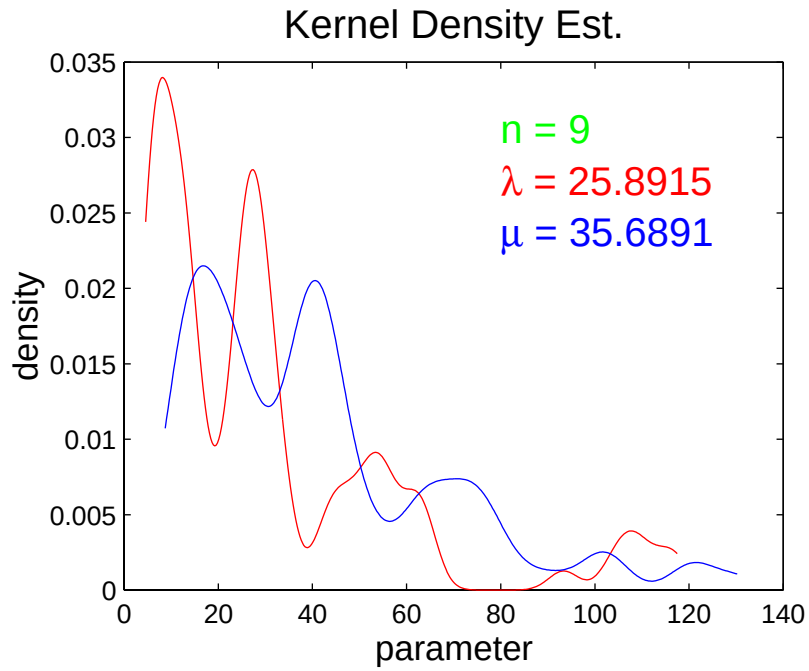

Trunc'd COO Param. Est., Off Peak Sess. 1
x 10^4
True Peak rate = 19.375 x 10^6
Jumps shown
Size (bytes)
Time (sec)

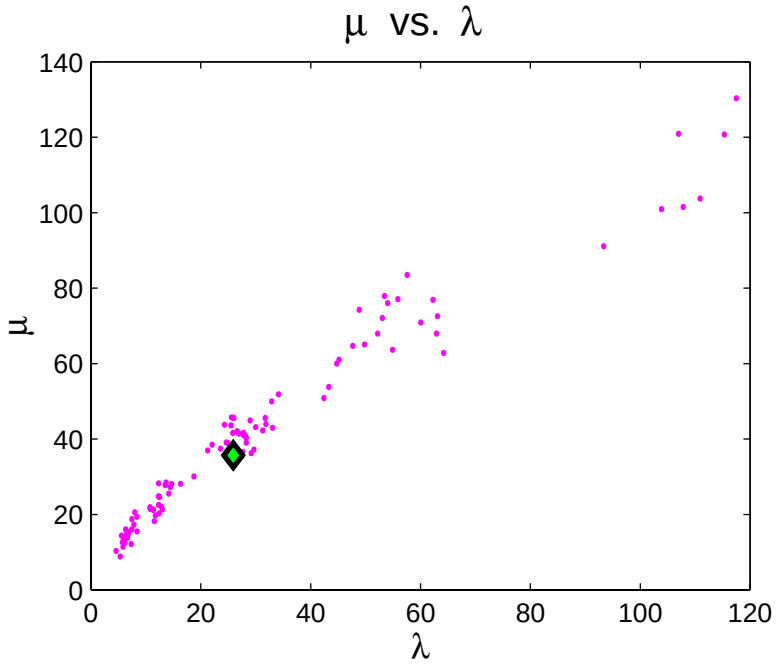

Estimated Rate Parameters
λ(n)
μ(n)
log10(parameter)
Cascade Level, n

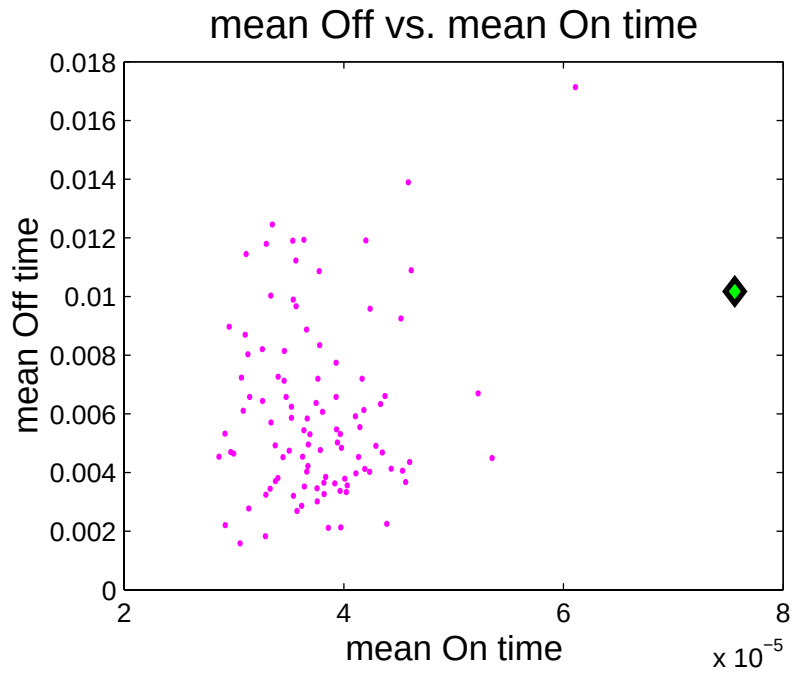

Theoretical Off−Time Variance
x 10^4
Sample Variance
Variance
Cascade Level, n

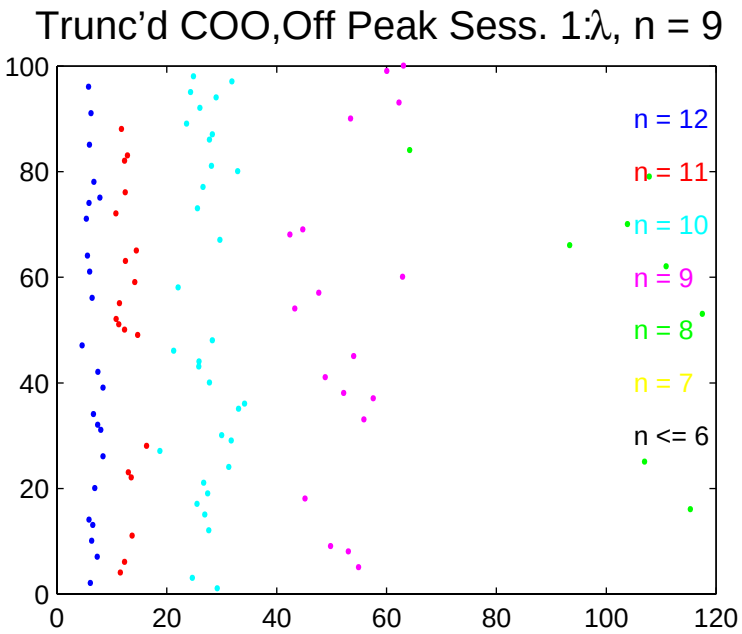

5 Casc. On−Off Simulated Traces
x 10^4
n = 9
λ = 25.8915
μ = 35.6891
Size (bytes)
Time (sec)

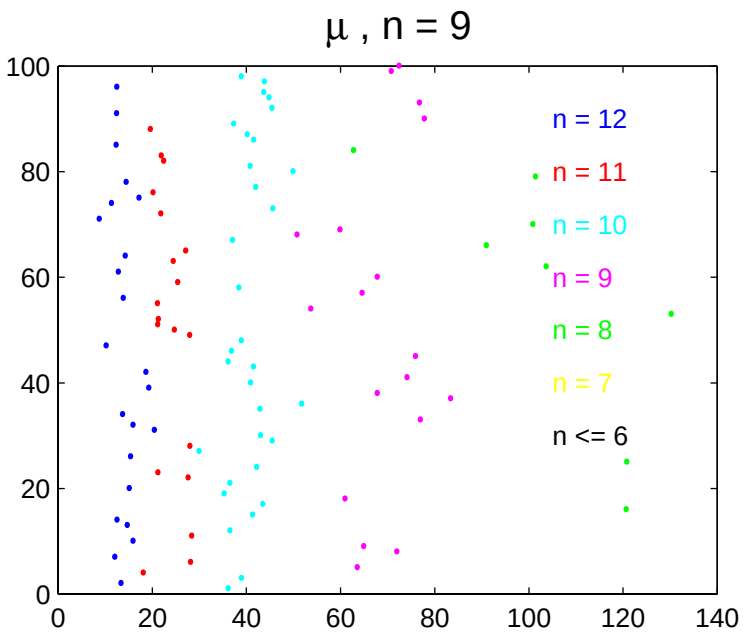

Trunc'd COO,Off Peak Sess. 1 : Scatter plot
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140

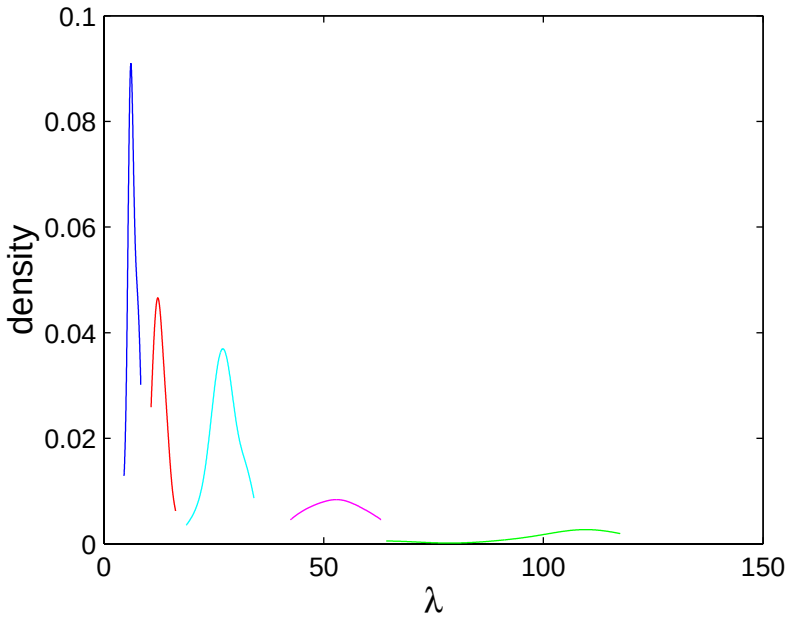

Kernel Density Est.
n = 9
λ = 25.8915
μ = 35.6891
density
parameter
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0
20
40
60
80
100
120
140

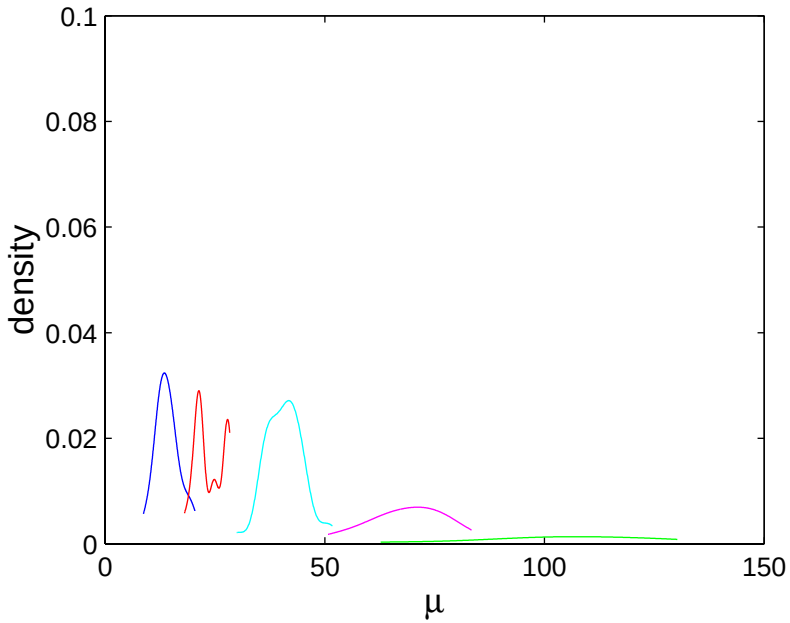

μ vs. λ
μ
λ
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120

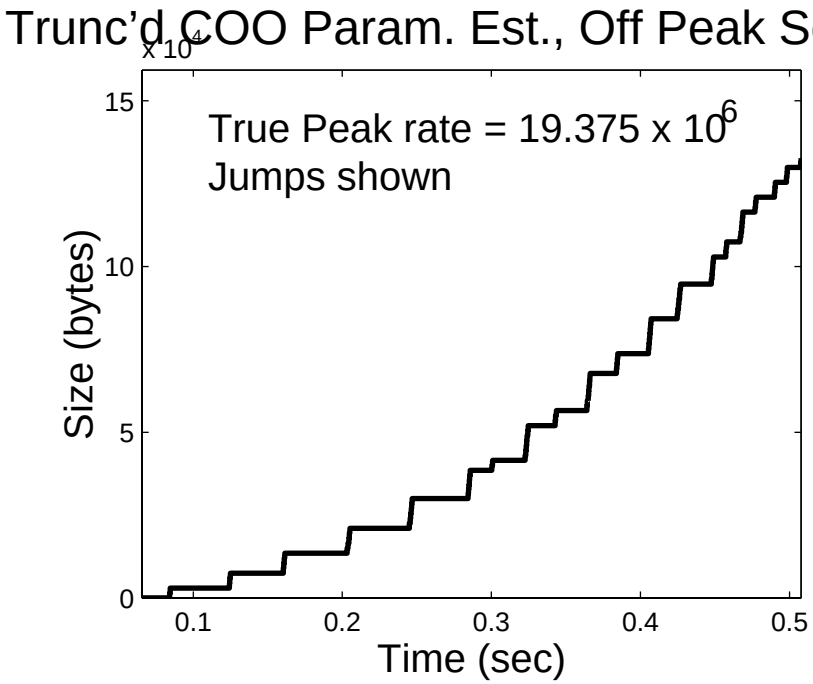

mean Off vs. mean On time
mean Off time
mean On time
x 10^-5
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2
4
6
8

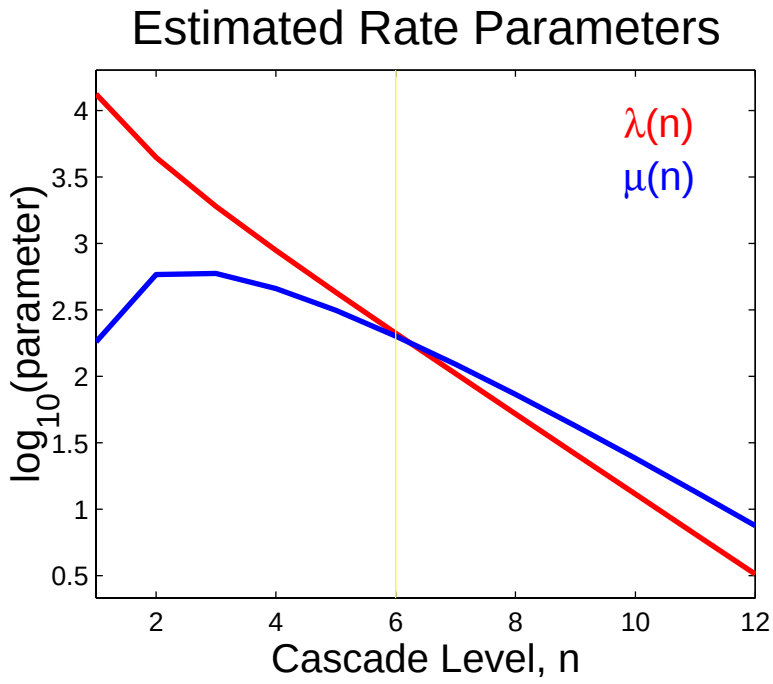

Trunc'd COO,Off Peak Sess. 1:λ, n = 9
n = 12
n = 11
n = 10
n = 9
n = 8
n = 7
n <= 6
0
20
40
60
80
100
120

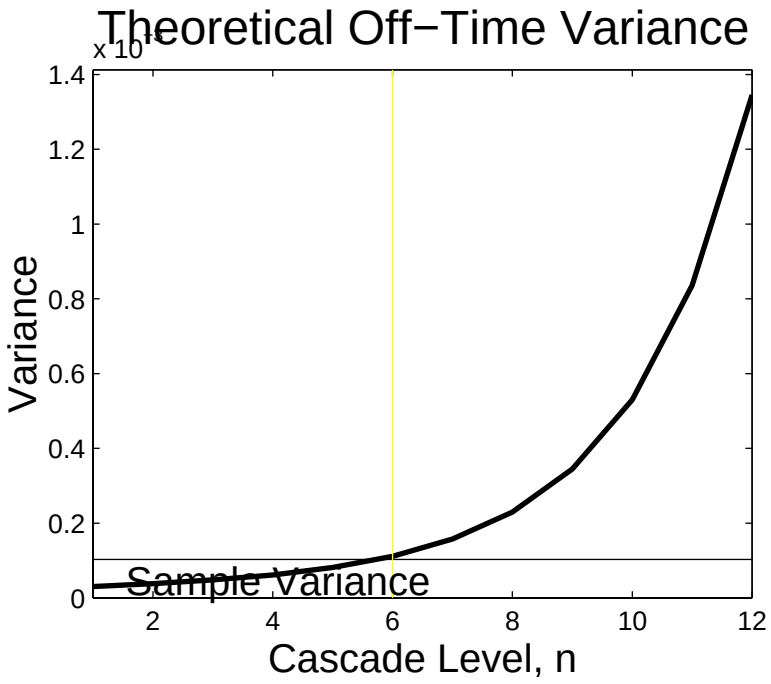

μ , n = 9
n = 12
n = 11
n = 10
n = 9
n = 8
n = 7
n <= 6
0
20
40
60
80
100
120
140

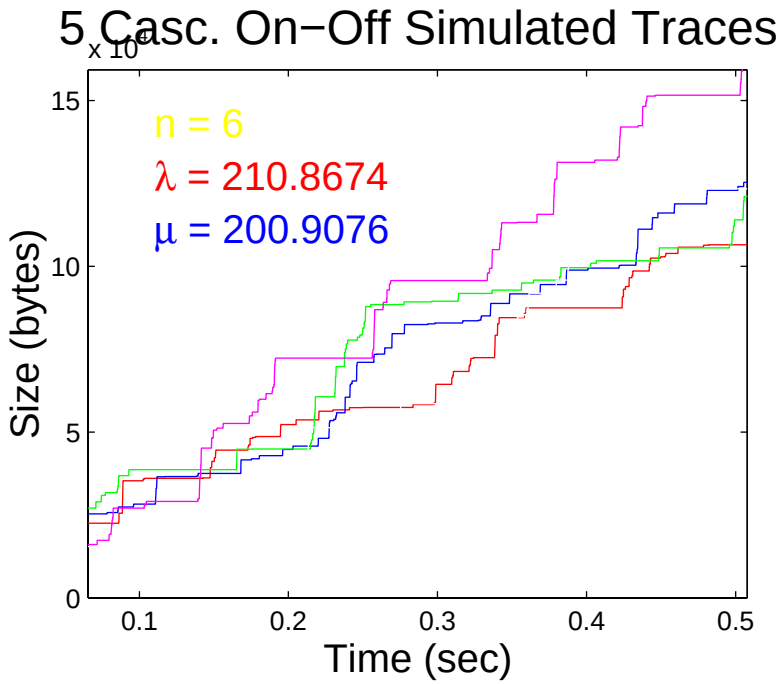

λ Kernel Density Est.
density
λ
0
0.02
0.04
0.06
0.08
0.1
0
50
100
150

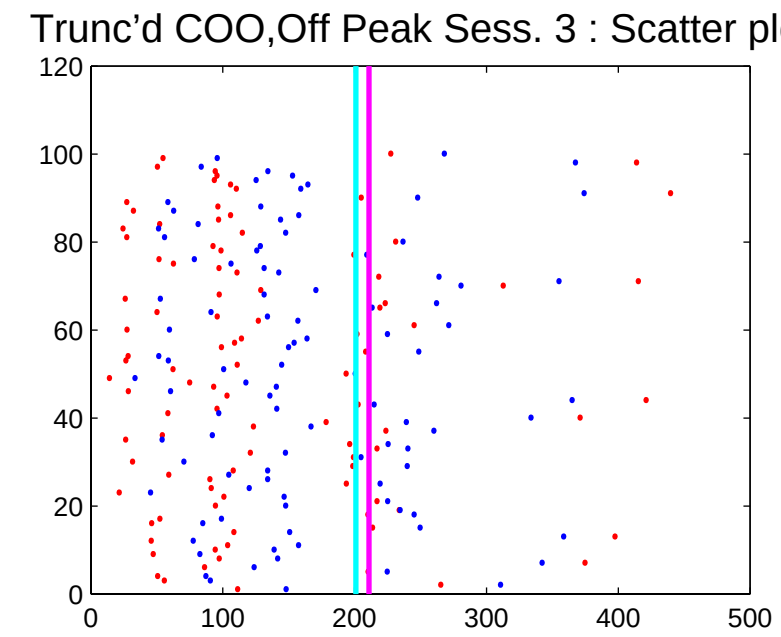

μ Kernel Density Est.
density
μ
0
0.02
0.04
0.06
0.08
0.1
0
50
100
150

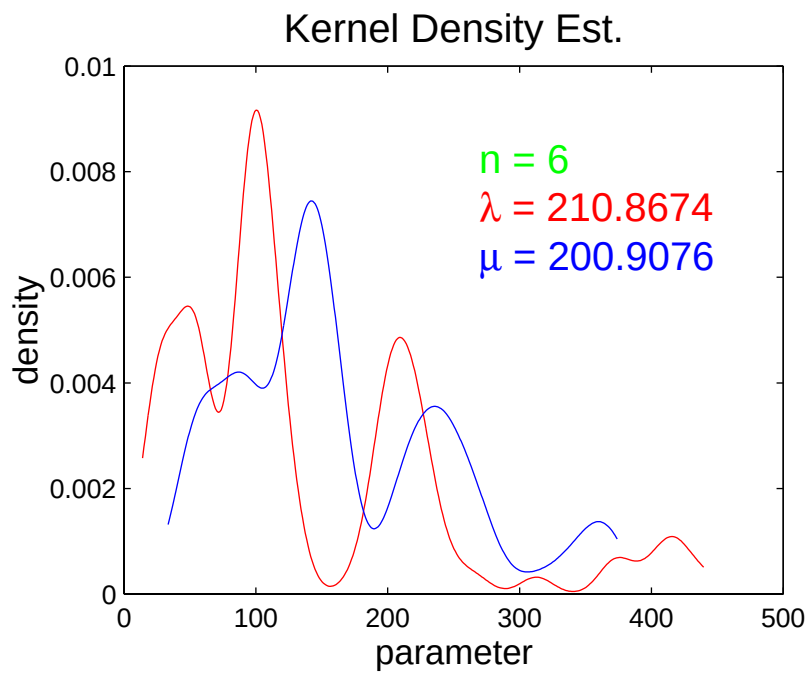

Trunc'd COO Param. Est., Off Peak Sess. 3
x 10^4
True Peak rate = 19.375 x 10^6
Jumps shown
Size (bytes)
Time (sec)

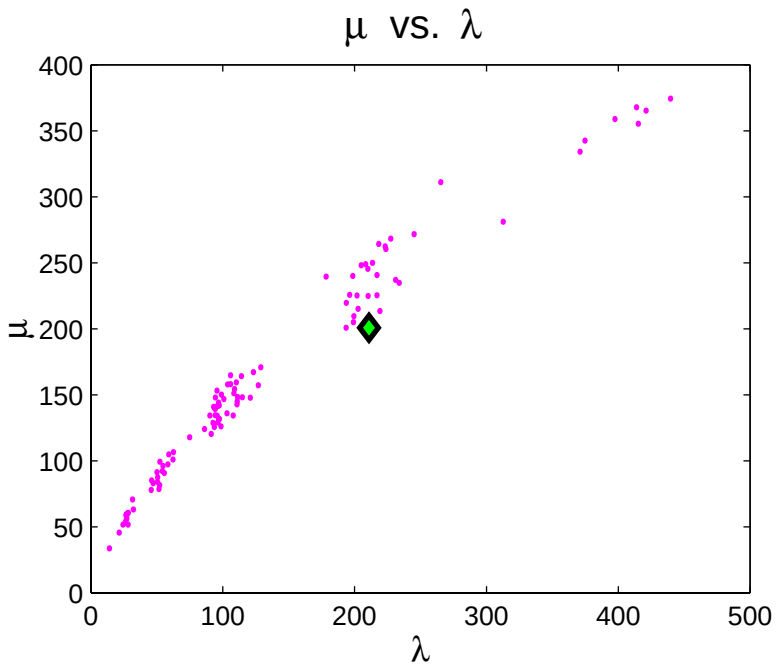

Estimated Rate Parameters
λ(n)
μ(n)
log10(parameter)
Cascade Level, n

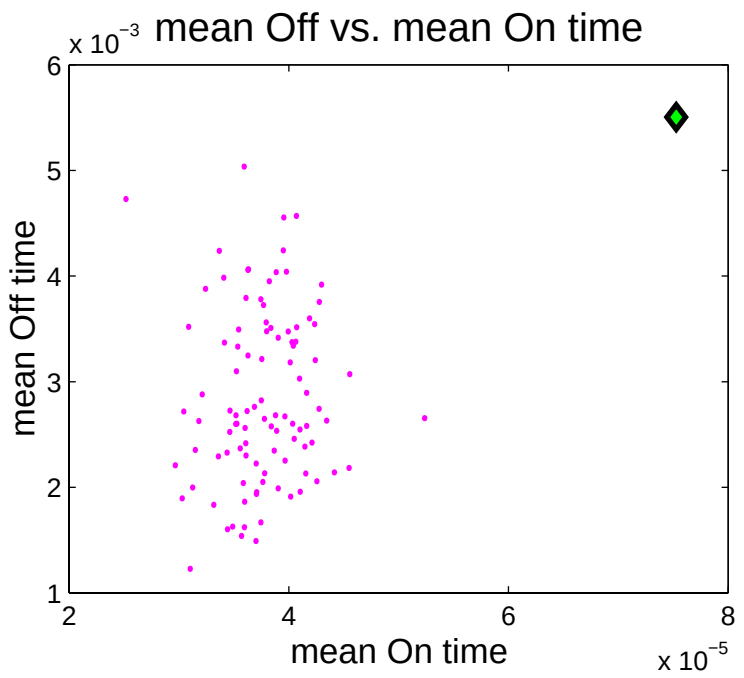

Theoretical Off−Time Variance
x 10^4
Variance
Sample Variance
Cascade Level, n

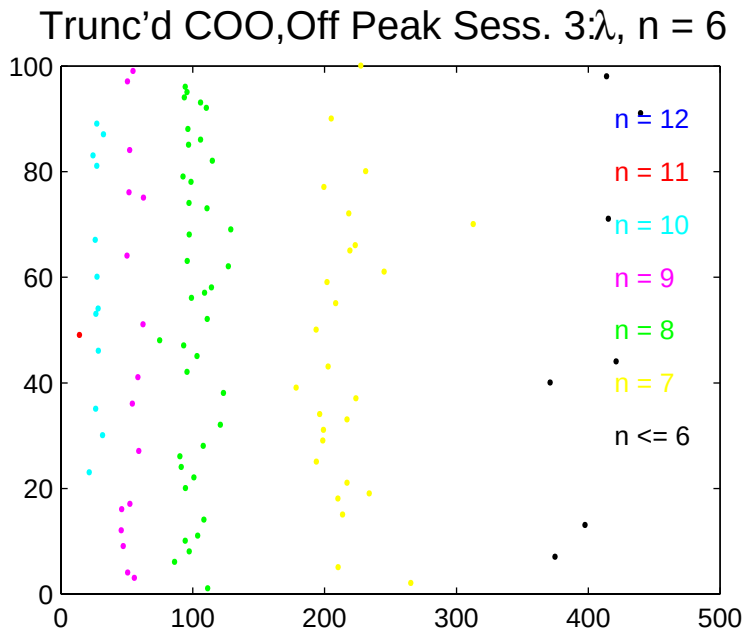

5 Casc. On−Off Simulated Traces
x 10^4
n = 6
λ = 210.8674
μ = 200.9076
Size (bytes)
Time (sec)

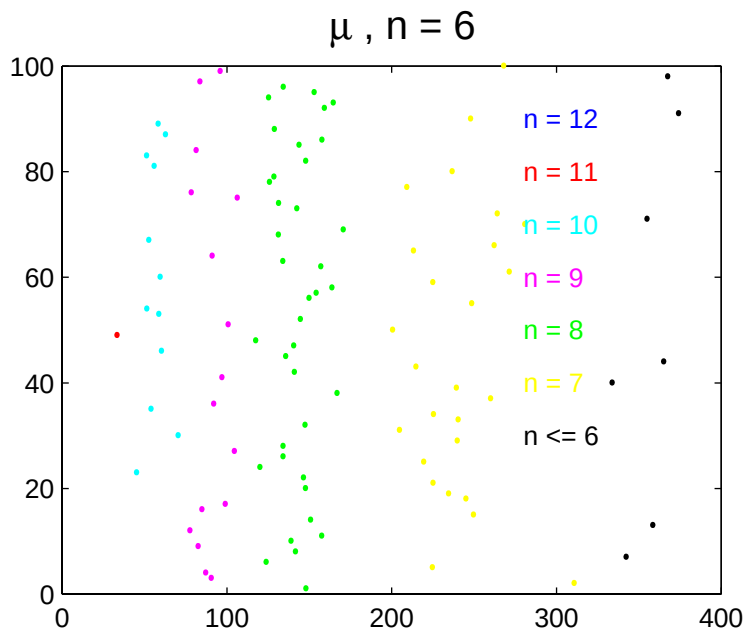

Trunc'd COO,Off Peak Sess. 3 : Scatter plot
120
100
80
60
40
20
0
0
100
200
300
400
500

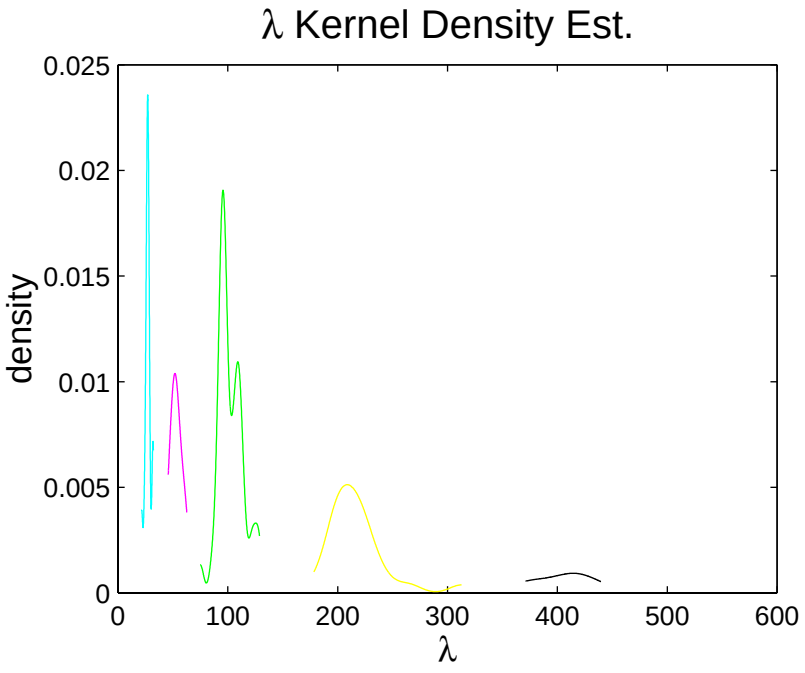

Kernel Density Est.
n = 6
λ = 210.8674
μ = 200.9076
density
parameter
0.01
0.008
0.006
0.004
0.002
0
0
100
200
300
400
500

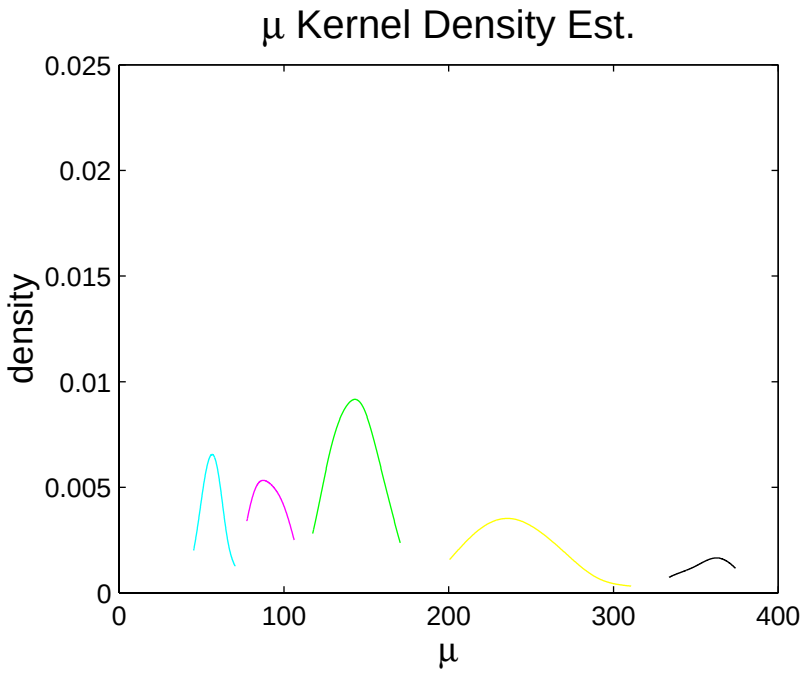

μ vs. λ
μ
λ
400
350
300
250
200
150
100
50
0
0
100
200
300
400
500

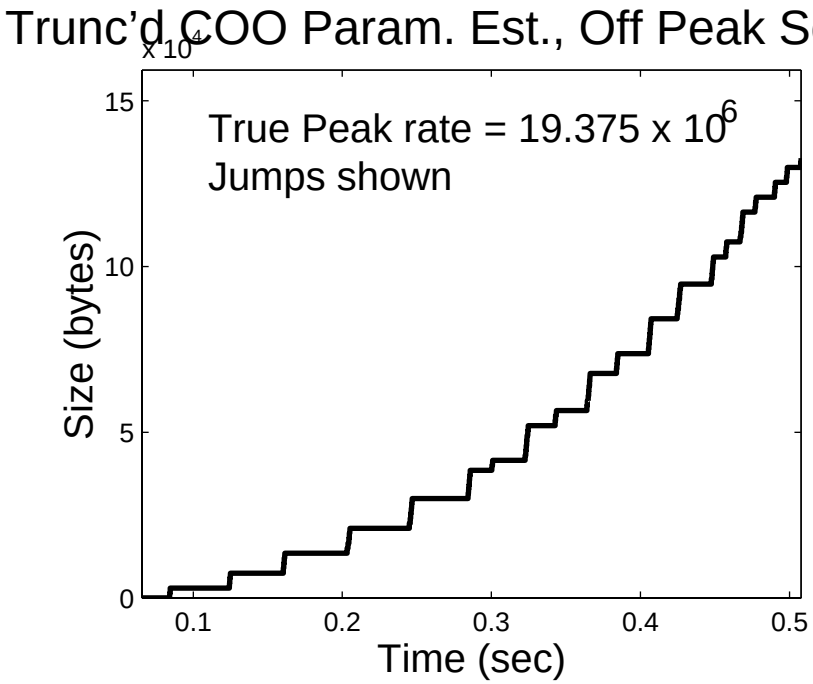

mean Off vs. mean On time
x 10^-3
mean Off time
mean On time
x 10^-5
6
5
4
3
2
1
2
4
6
8

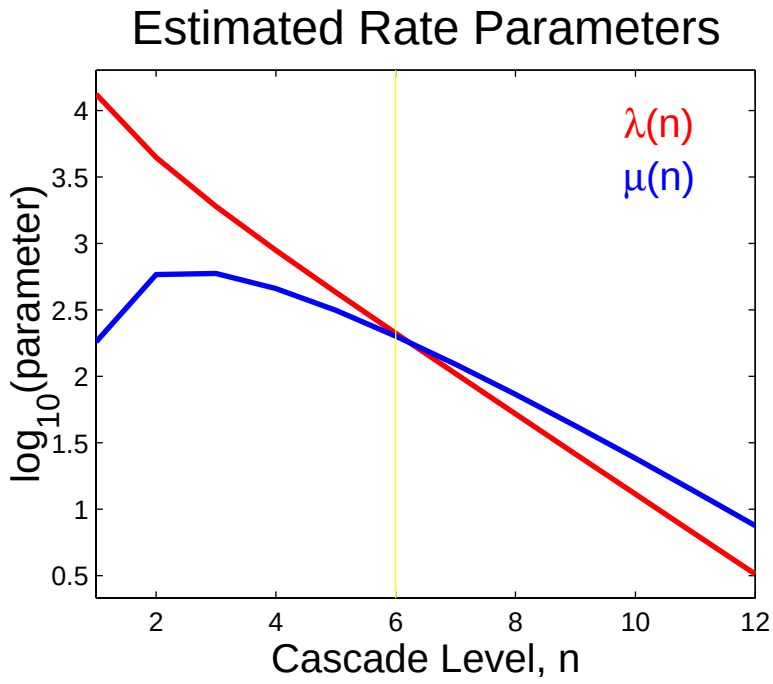

Trunc'd COO,Off Peak Sess. 3:λ, n = 6
n = 12
n = 11
n = 10
n = 9
n = 8
n = 7
n <= 6
0
20
40
60
80
100
0
100
200
300
400
500

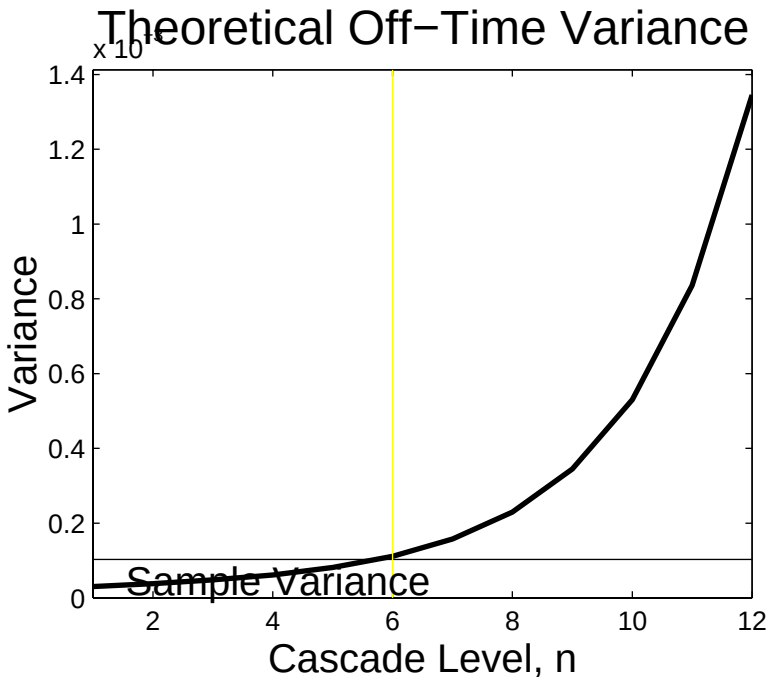

μ , n = 6
n = 12
n = 11
n = 10
n = 9
n = 8
n = 7
n <= 6
0
20
40
60
80
100
0
100
200
300
400

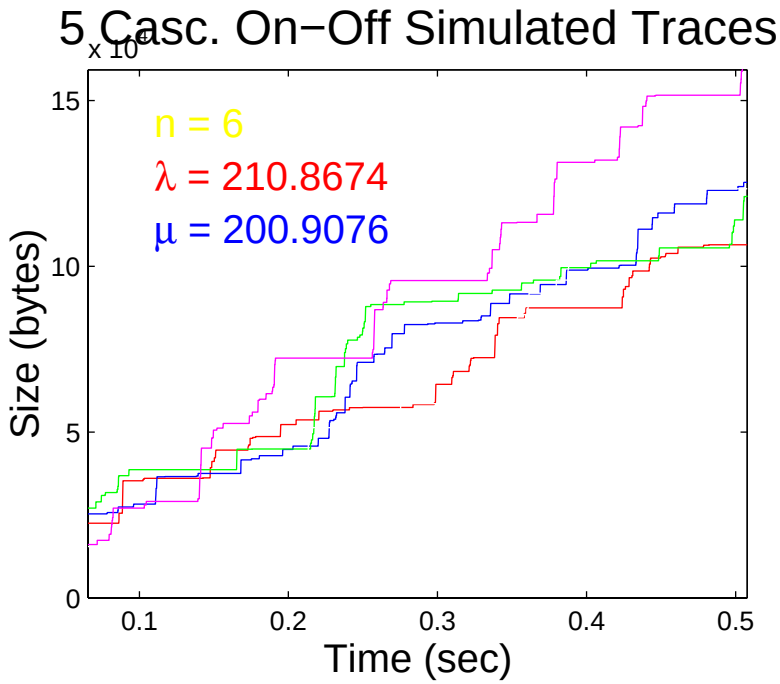

λ Kernel Density Est.
density
λ
0
0.005
0.01
0.015
0.02
0.025
0
100
200
300
400
500
600

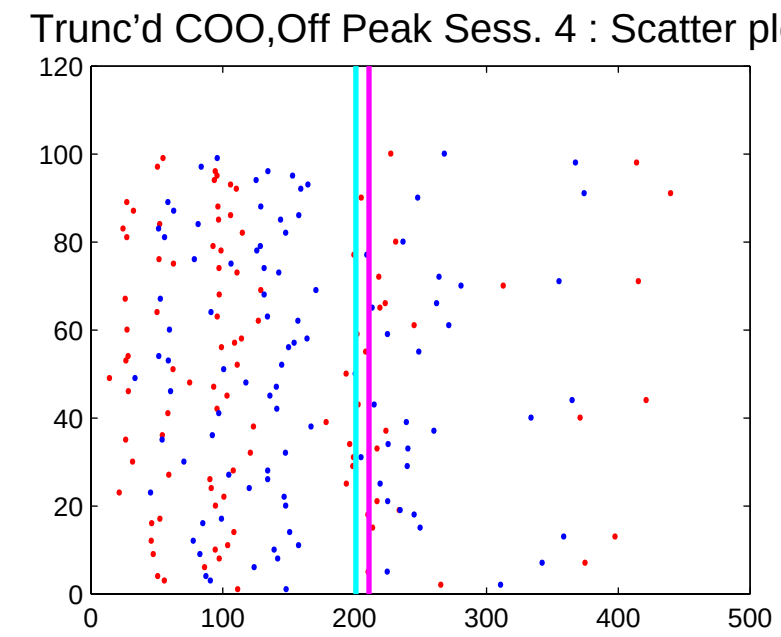

μ Kernel Density Est.
density
μ
0
0.005
0.01
0.015
0.02
0.025
0
100
200
300
400

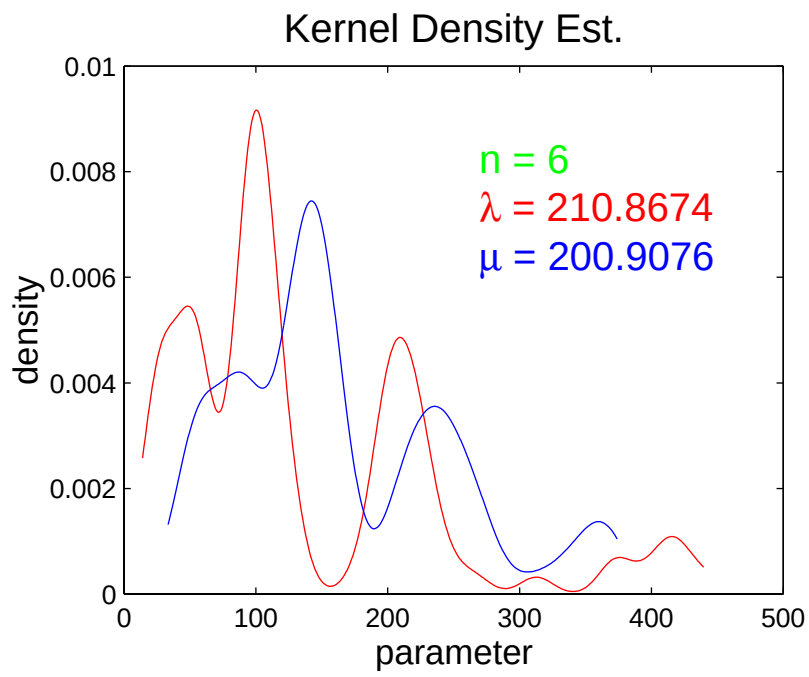

Trunc'd COO Param. Est., Off Peak Sess. 4
x 10^4
True Peak rate = 19.375 x 10^6
Jumps shown
Size (bytes)
Time (sec)

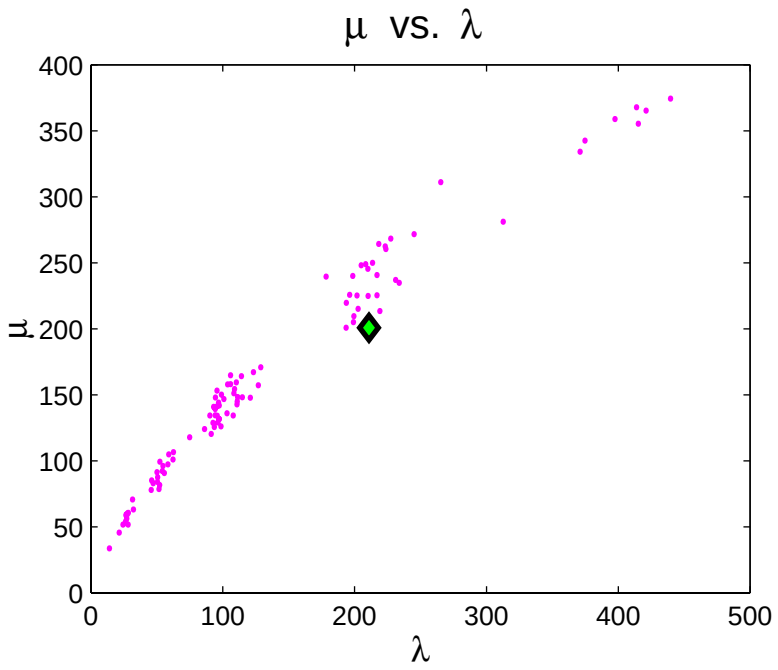

Estimated Rate Parameters
λ(n)
μ(n)
log10(parameter)
Cascade Level, n

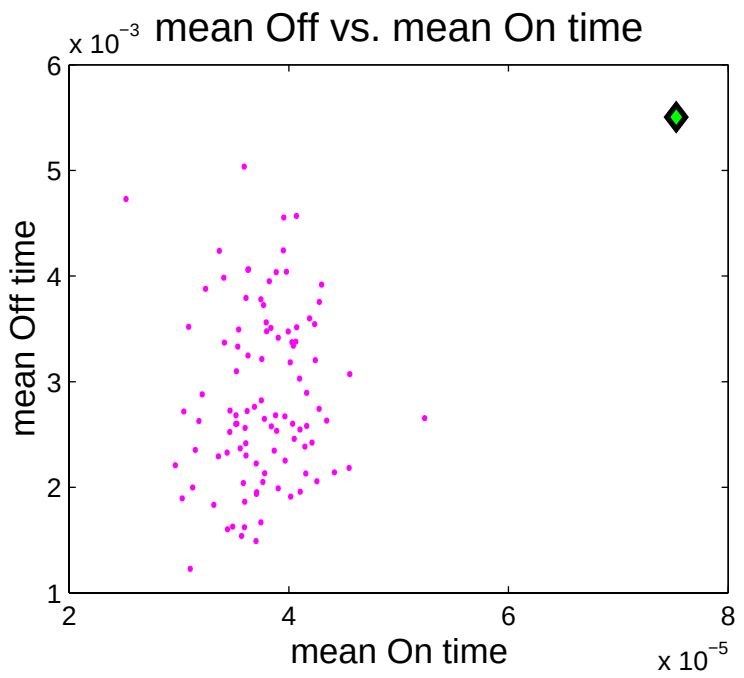

Theoretical Off−Time Variance
x 10^4
Sample Variance
Variance
Cascade Level, n

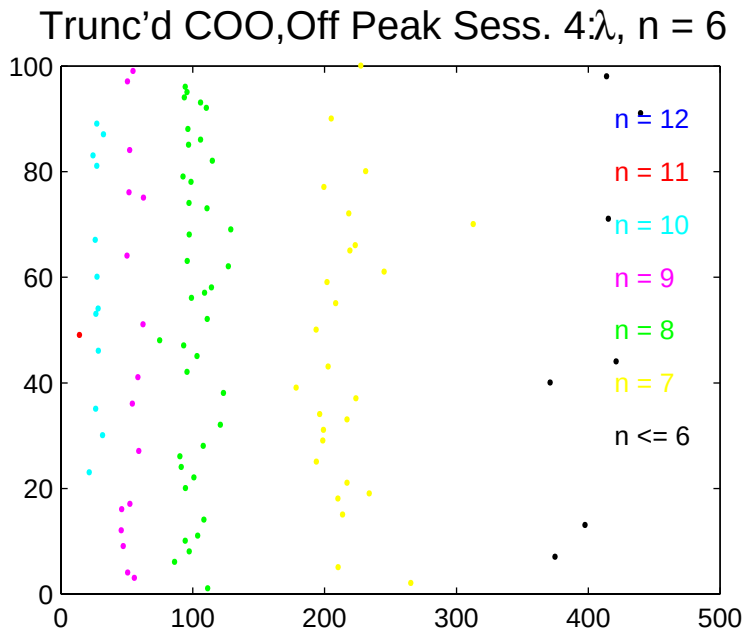

5 Casc. On−Off Simulated Traces
x 10^4
n = 6
λ = 210.8674
μ = 200.9076
Size (bytes)
Time (sec)

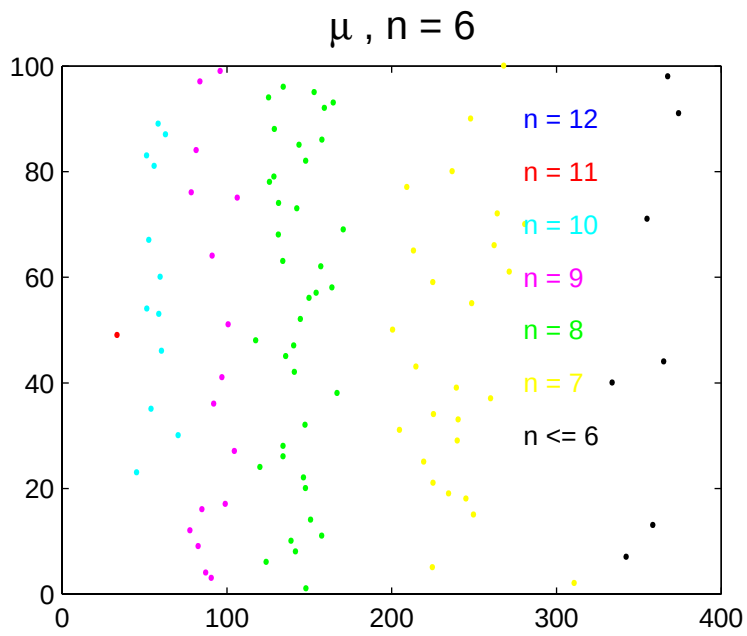

Trunc'd COO,Off Peak Sess. 4 : Scatter plot
120
100
80
60
40
20
0
0
100
200
300
400
500

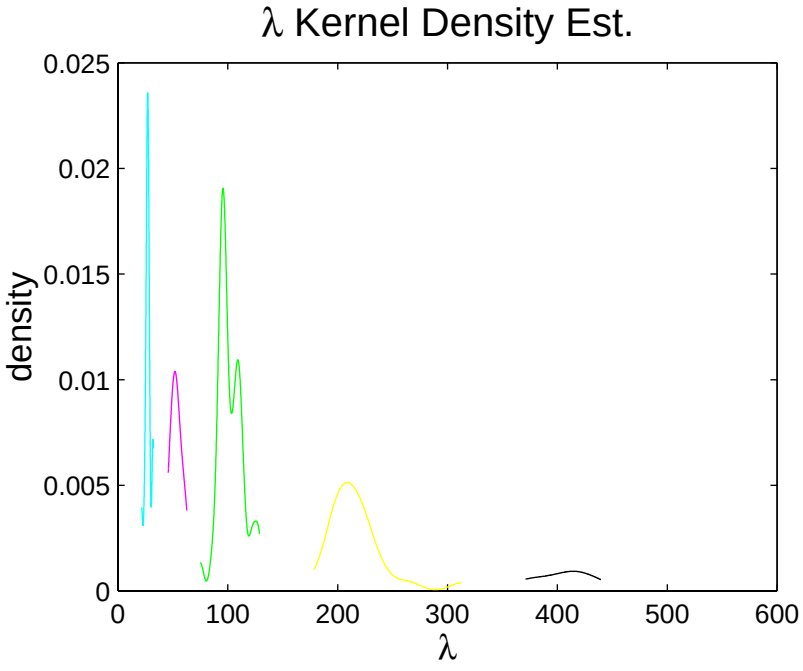

Kernel Density Est.
n = 6
λ = 210.8674
μ = 200.9076
density
parameter
0.01
0.008
0.006
0.004
0.002
0
0
100
200
300
400
500

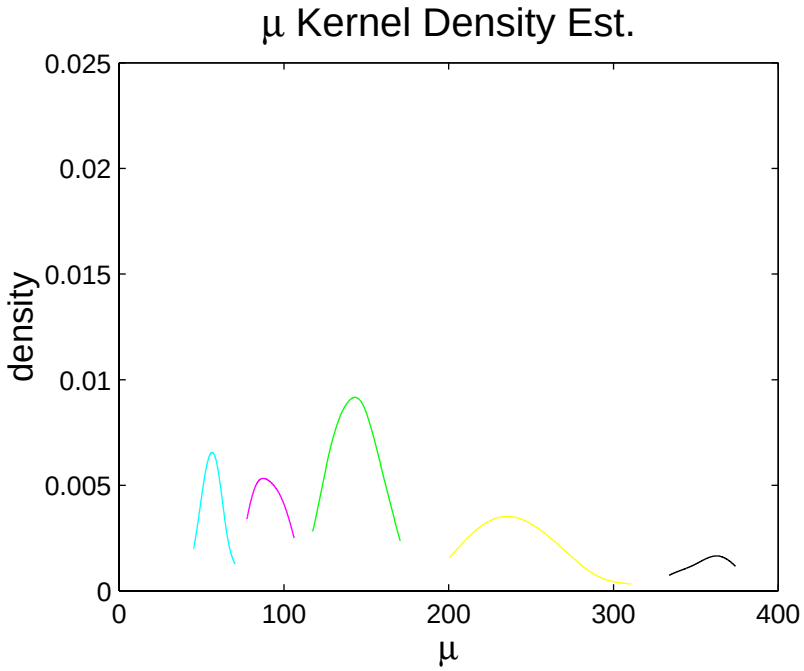

μ vs. λ
μ
λ
400
350
300
250
200
150
100
50
0
0
100
200
300
400
500

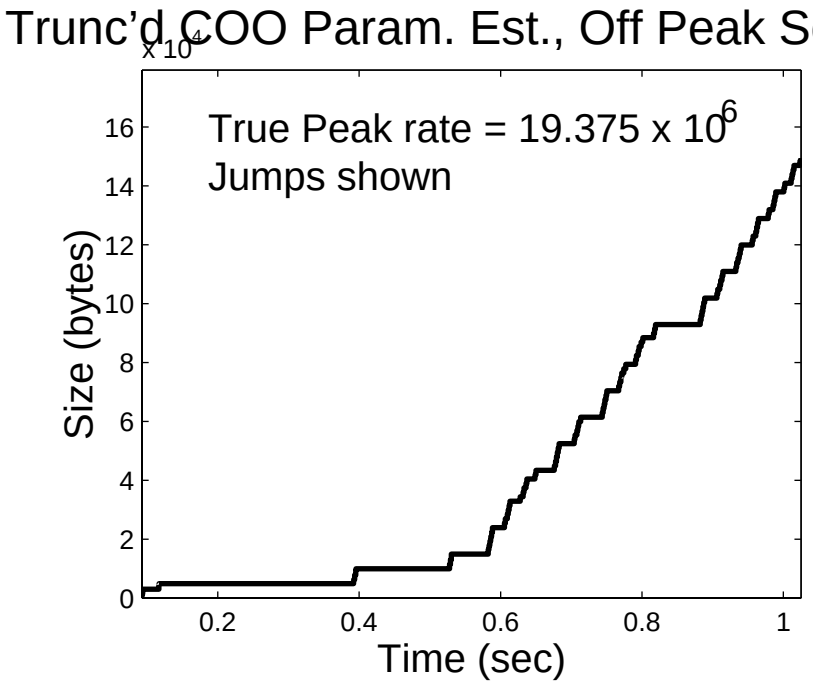

mean Off vs. mean On time
x 10^-3
mean Off time
mean On time
x 10^-5
6
5
4
3
2
1
2
4
6
8

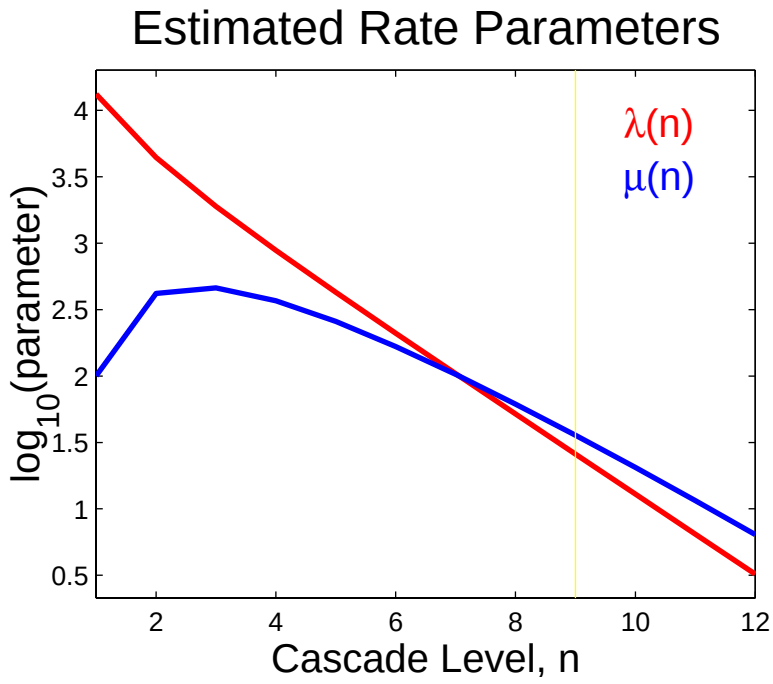

Trunc'd COO,Off Peak Sess. 4:λ, n = 6
n = 12
n = 11
n = 10
n = 9
n = 8
n = 7
n <= 6
0
20
40
60
80
100
0
100
200
300
400
500

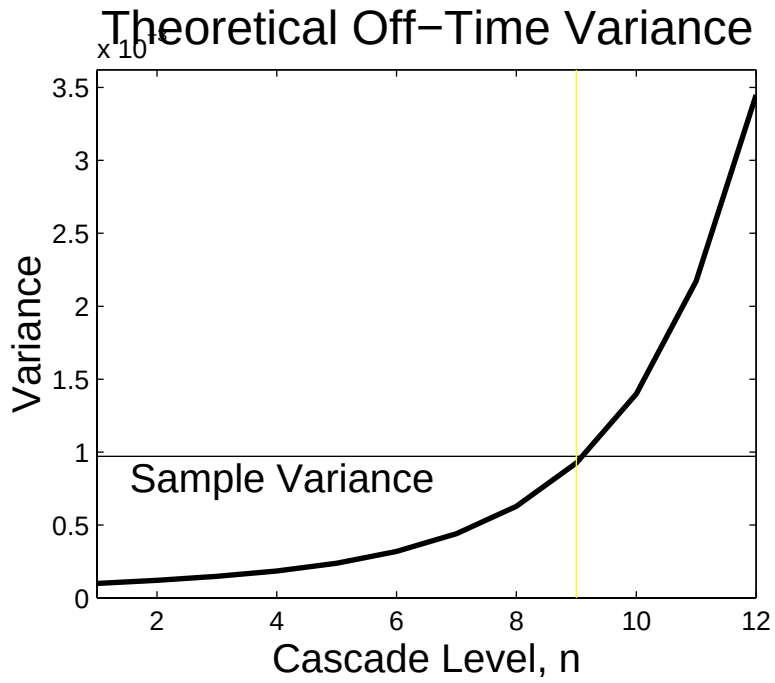

μ , n = 6
n = 12
n = 11
n = 10
n = 9
n = 8
n = 7
n <= 6
0
20
40
60
80
100
0
100
200
300
400

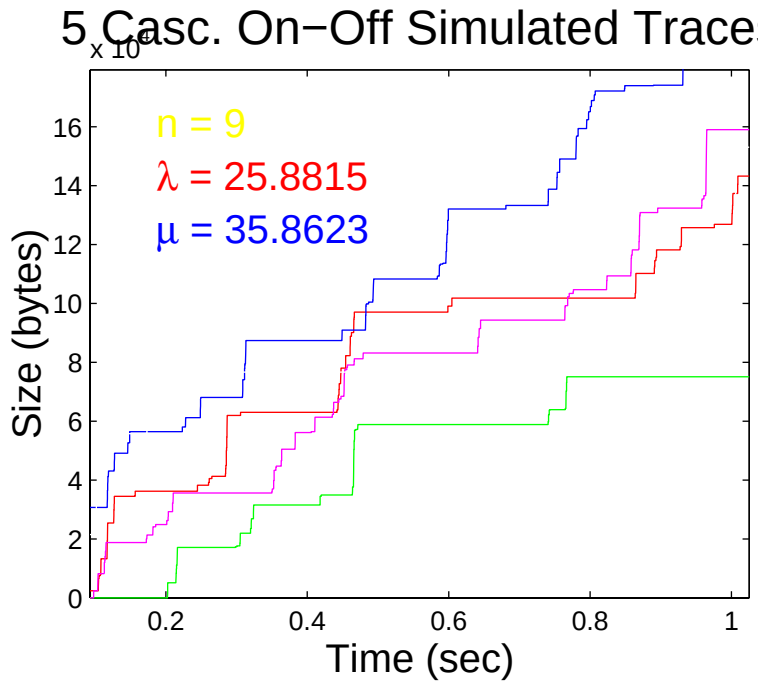

λ Kernel Density Est.
density
λ
0
0.005
0.01
0.015
0.02
0.025
0
100
200
300
400
500
600

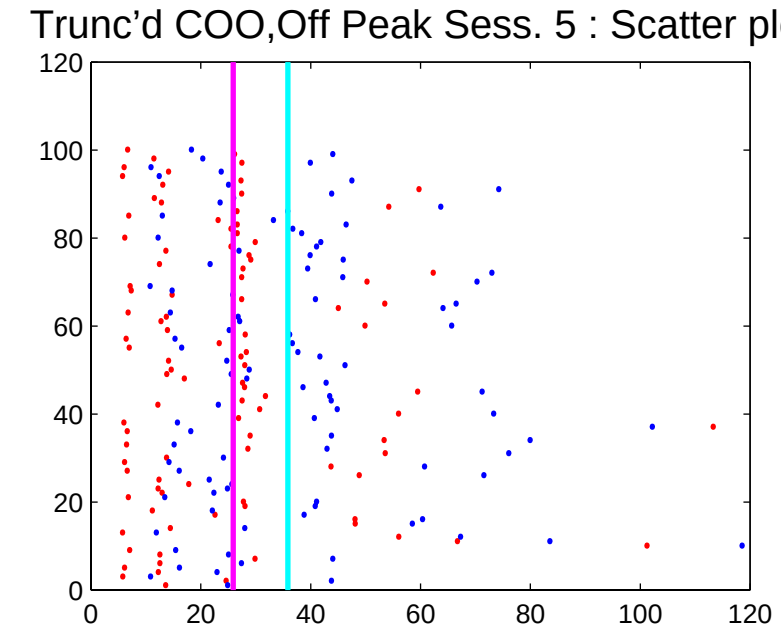

μ Kernel Density Est.
density
μ
0
0.005
0.01
0.015
0.02
0.025
0
100
200
300
400

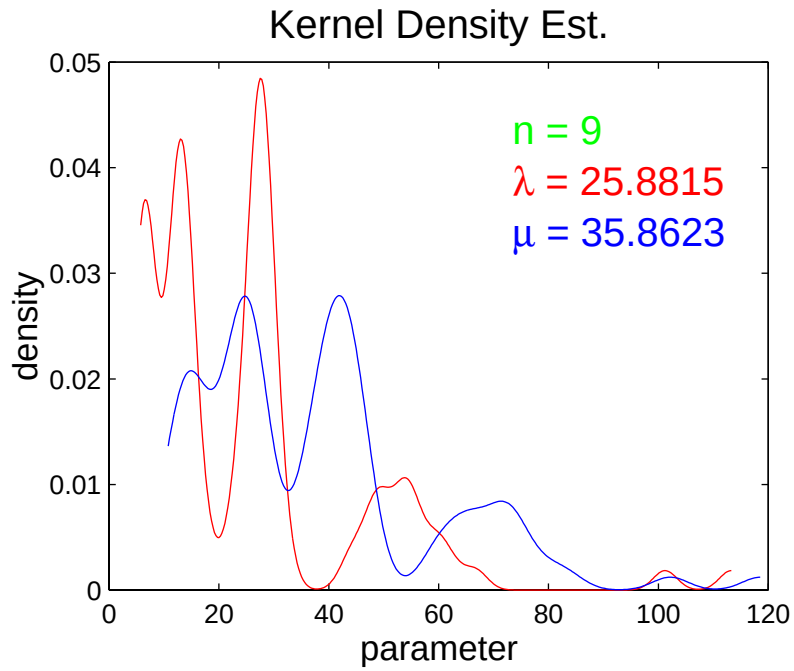

Trunc'd COO Param. Est., Off Peak Sess. 5
x 10^4
True Peak rate = 19.375 x 10^6
Jumps shown
Size (bytes)
Time (sec)

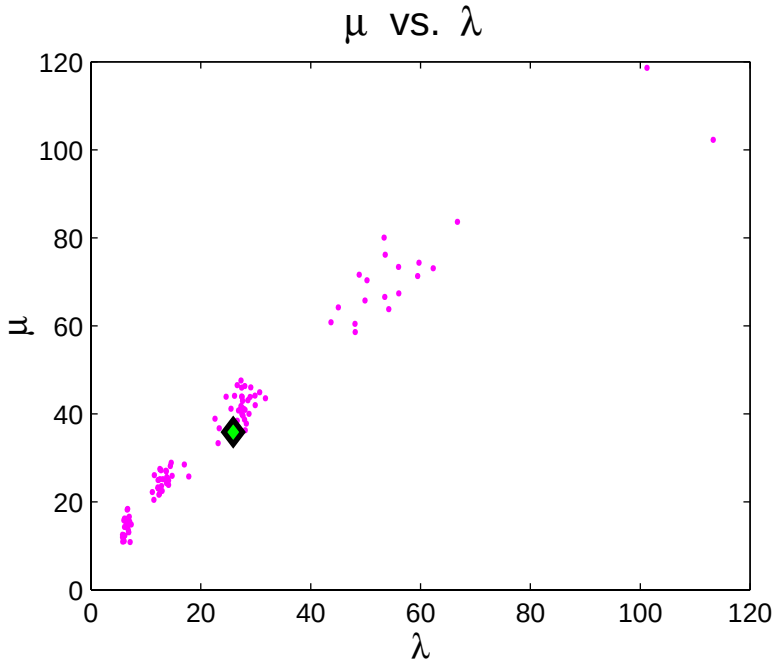

Estimated Rate Parameters
λ(n)
μ(n)
log10(parameter)
Cascade Level, n

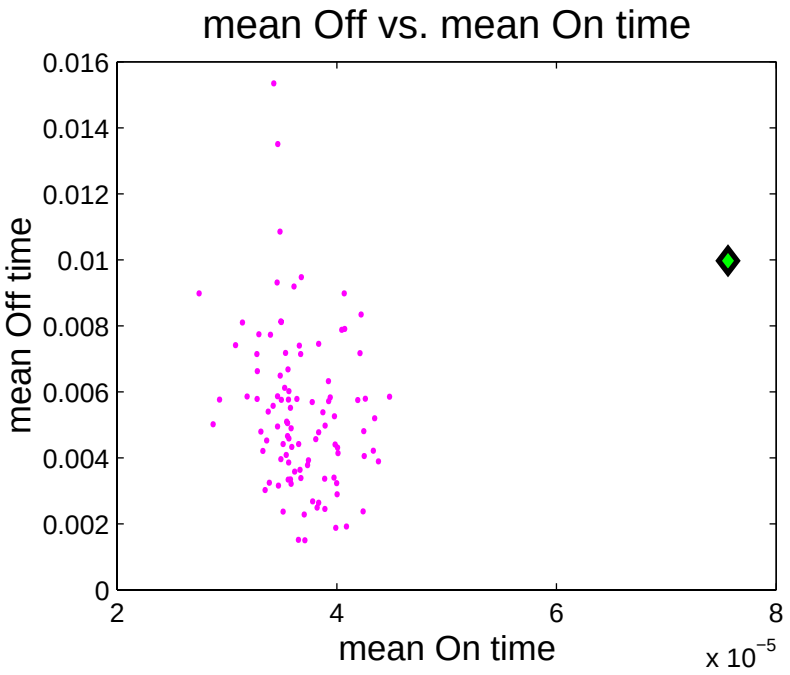

Theoretical Off−Time Variance
x 10^4
Sample Variance
Variance
Cascade Level, n

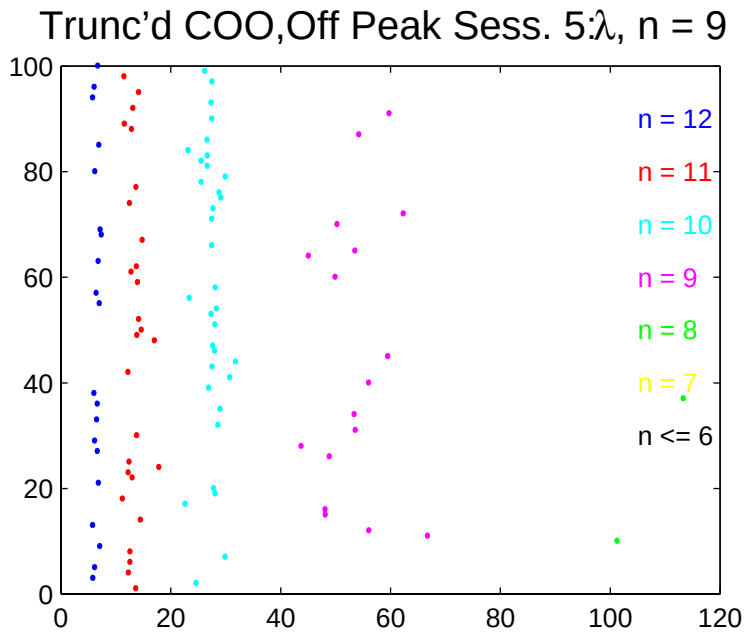

5 Casc. On−Off Simulated Traces
x 10^4
n = 9
λ = 25.8815
μ = 35.8623
Size (bytes)
Time (sec)

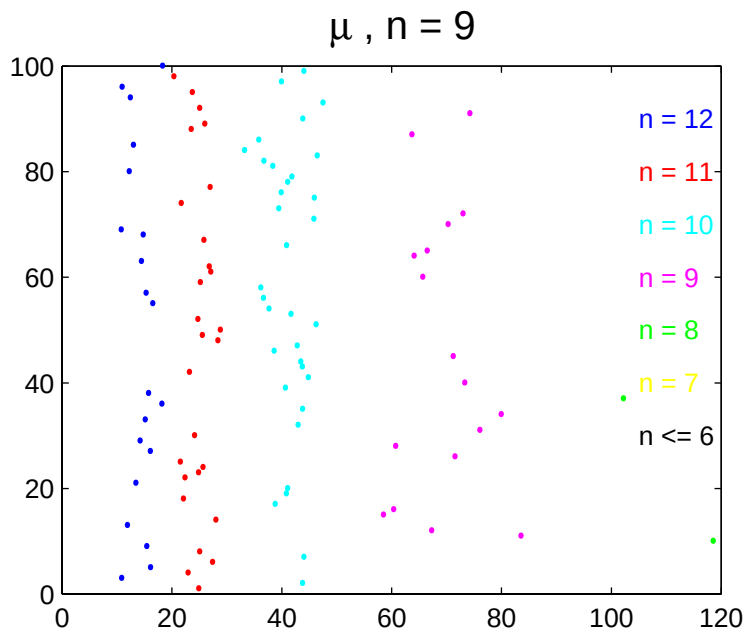

Trunc'd COO,Off Peak Sess. 5 : Scatter plot
120
100
80
60
40
20
0
0
20
40
60
80
100
120

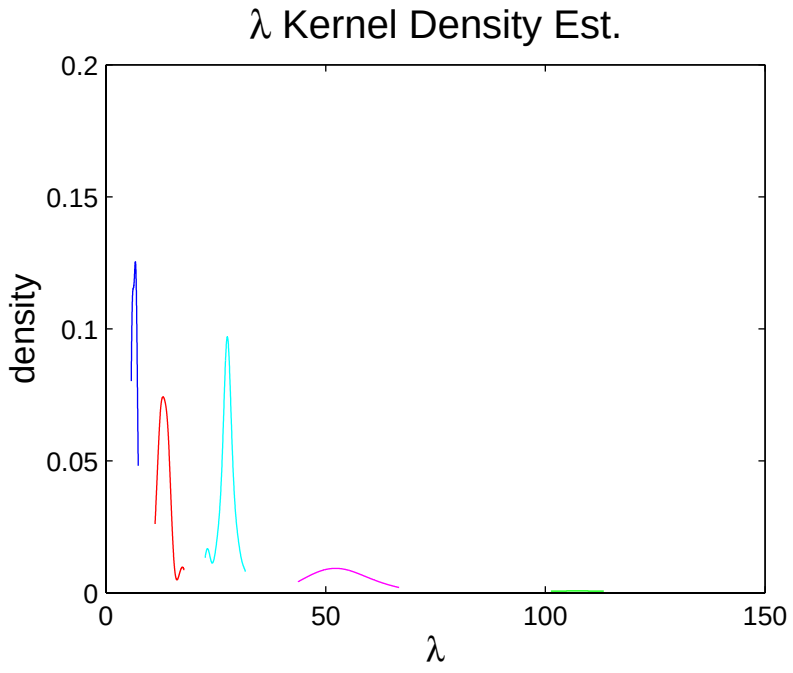

Kernel Density Est.
n = 9
λ = 25.8815
μ = 35.8623
density
parameter
0.05
0.04
0.03
0.02
0.01
0
0
20
40
60
80
100
120

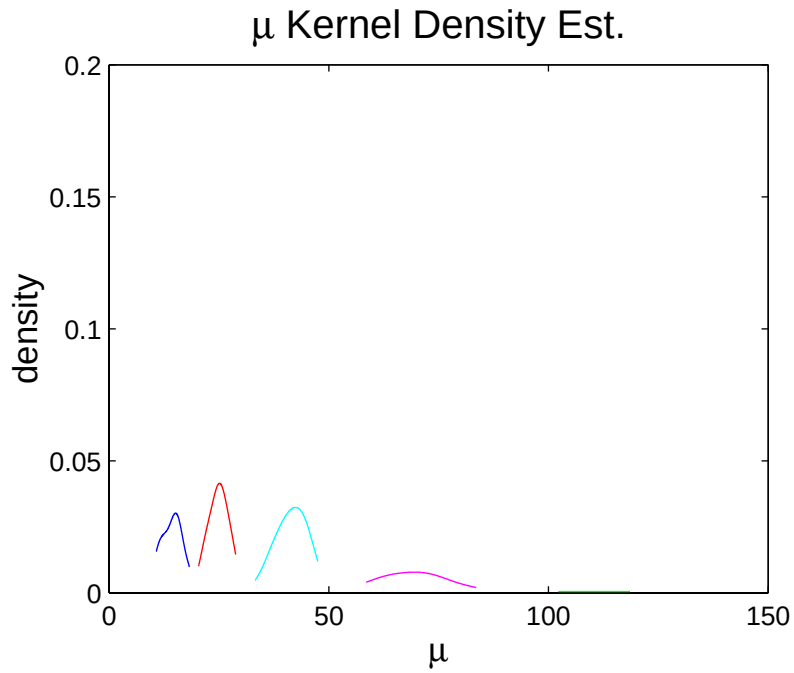

μ vs. λ
μ
λ
120
100
80
60
40
20
0
0
20
40
60
80
100
120


mean Off vs. mean On time
mean Off time
mean On time
x 10^-5
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2
4
6
8


Trunc'd COO,Off Peak Sess. 5:λ, n = 9
n = 12
n = 11
n = 10
n = 9
n = 8
n = 7
n <= 6
0
20
40
60
80
100
120


μ , n = 9
n = 12
n = 11
n = 10
n = 9
n = 8
n = 7
n <= 6
0
20
40
60
80
100
120


λ Kernel Density Est.
density
λ
0
0.05
0.1
0.15
0.2
0
50
100
150


μ Kernel Density Est.
density
μ
0
0.05
0.1
0.15
0.2
0
50
100
150