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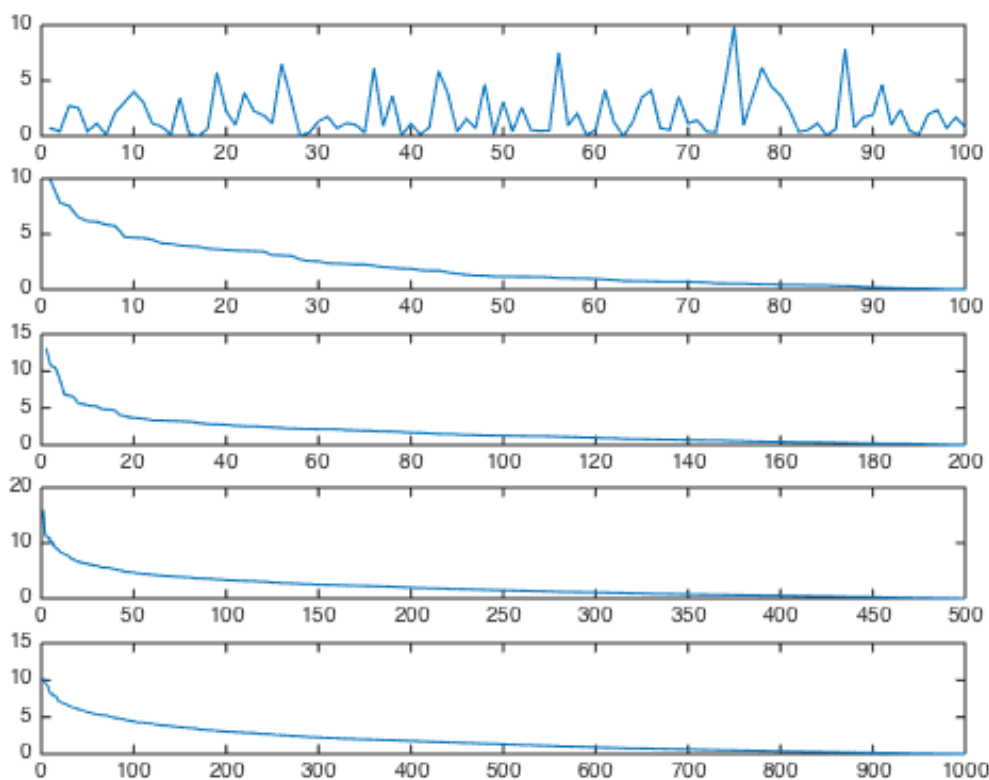
u = rand(100, 1);    %uniform random variable between 0 and 1
lambda = 1/2;        %lambda derived from mean
x = -log(1-u)/lambda; %exponential rv
figure; subplot(5,1,1);
plot(x);
subplot(5,1,2);
plot(sort(x, 'descend'))

u = rand(200, 1);    %uniform random variable between 0 and 1
lambda = 1/2;        %lambda derived from mean
x = -log(1-u)/lambda; %exponential rv
subplot(5,1,3);
plot(sort(x, 'descend'))

u = rand(500, 1);    %uniform random variable between 0 and 1
lambda = 1/2;        %lambda derived from mean
x = -log(1-u)/lambda; %exponential rv
subplot(5,1,4);
plot(sort(x, 'descend'))

u = rand(1000, 1);    %uniform random variable between 0 and 1
lambda = 1/2;        %lambda derived from mean
x = -log(1-u)/lambda; %exponential rv
subplot(5,1,5);
plot(sort(x, 'descend'))

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Published with MATLAB® R2014b