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Lampiran 1. Syntax program Matlab Pembangkit data berdistribusi ZIGP

```
clear all
clc
lambda=;
w=;
ns=round(100*(1-w));
phi=0.6;
A=zeros((100*w),1);
S=zeros(ns,1);
for i=1:ns;
    k=0;
    k=1; produ=1;
    produ=produ*rand;
    while produ >= (1-w)*exp(-(lambda+k*(phi-1))/phi);
        produ=produ*rand;
        k=k+1;
    end
    S(i)=k-1;
    B=[S;A];
    C=reshape(((permute((reshape(B,20,[])),[2 1]))),100,[]);
end
```

Lampiran 2. Hasil Syntax program Matlab Pembangkit data berdistribusi ZIGP

No	$\omega = 0$			$\omega = 0.4$			$\omega = 0.8$		
	$\varphi = 0.6$	$\varphi = 1$	$\varphi = 1.4$	$\varphi = 0.6$	$\varphi = 1$	$\varphi = 1.4$	$\varphi = 0.6$	$\varphi = 1$	$\varphi = 1.4$
1	3	2	5	2	2	6	3	3	5
2	4	2	4	3	5	7	0	0	0
3	2	5	4	4	6	1	0	0	0
4	0	5	3	0	0	0	0	0	0
5	4	2	4	0	0	0	0	0	0
6	3	5	3	4	4	7	5	6	10
7	4	2	0	2	6	5	0	0	0
8	2	3	5	4	2	7	0	0	0
9	3	2	2	0	0	0	0	0	0
10	2	3	1	0	0	0	0	0	0
11	2	7	2	3	4	2	4	2	5
12	3	2	3	2	3	3	0	0	0
13	1	2	0	2	6	2	0	0	0
14	4	5	1	0	0	0	0	0	0
15	3	4	5	0	0	0	0	0	0
16	0	4	8	1	2	6	3	6	5
17	3	0	1	3	3	3	0	0	0
18	2	6	2	2	6	3	0	0	0
19	5	1	5	0	0	0	0	0	0
20	4	1	4	0	0	0	0	0	0
21	2	5	1	4	2	5	4	5	2
22	3	3	1	2	4	2	0	0	0
23	2	1	3	3	5	2	0	0	0
24	3	4	1	0	0	0	0	0	0
25	3	2	2	0	0	0	0	0	0
26	3	3	0	2	2	6	4	2	5
27	1	2	2	2	7	6	0	0	0
28	2	3	4	3	5	3	0	0	0
29	1	5	2	0	0	0	0	0	0
30	2	2	5	0	0	0	0	0	0
31	3	5	5	3	2	6	5	6	1
32	4	1	7	4	5	2	0	0	0
33	1	3	1	2	1	9	0	0	0
34	1	4	1	0	0	0	0	0	0
35	2	3	7	0	0	0	0	0	0
36	2	2	2	2	2	3	4	7	2
37	4	2	3	3	2	7	0	0	0

38	2	2	4	5	6	7	0	0	0
39	2	0	2	0	0	0	0	0	0
40	2	3	0	0	0	0	0	0	0
41	3	3	1	2	2	2	2	0	1
42	2	1	10	3	5	10	0	0	0
43	2	3	7	3	1	7	0	0	0
44	3	4	5	0	0	0	0	0	0
45	3	5	6	0	0	0	0	0	0
46	4	4	0	5	4	2	5	2	4
47	3	3	2	5	8	6	0	0	0
48	3	2	2	2	7	5	0	0	0
49	2	4	2	0	0	0	0	0	0
50	3	1	5	0	0	0	0	0	0
51	2	2	2	2	0	6	4	4	8
52	4	2	4	2	8	7	0	0	0
53	2	3	3	1	3	6	0	0	0
54	4	5	4	0	0	0	0	0	0
55	2	4	0	0	0	0	0	0	0
56	2	5	1	2	3	3	3	3	6
57	2	3	3	3	3	2	0	0	0
58	4	6	5	4	6	0	0	0	0
59	2	3	4	0	0	0	0	0	0
60	3	4	2	0	0	0	0	0	0
61	3	3	7	5	3	4	3	4	8
62	3	1	2	4	1	5	0	0	0
63	2	7	4	5	1	3	0	0	0
64	3	2	9	0	0	0	0	0	0
65	2	1	3	0	0	0	0	0	0
66	3	2	4	3	4	4	6	5	11
67	4	2	2	3	5	1	0	0	0
68	2	2	3	4	2	4	0	0	0
69	4	4	4	0	0	0	0	0	0
70	4	4	2	0	0	0	0	0	0
71	3	2	6	4	4	3	4	2	3
72	4	1	1	1	3	2	0	0	0
73	3	2	6	3	1	4	0	0	0
74	4	4	3	0	0	0	0	0	0
75	4	2	2	0	0	0	0	0	0
76	2	1	7	5	2	1	2	4	6
77	3	3	1	1	4	4	0	0	0
78	3	2	1	2	6	5	0	0	0

79	2	4	1	0	0	0	0	0	0
80	2	1	4	0	0	0	0	0	0
81	4	2	2	2	1	2	5	3	5
82	4	3	3	4	1	2	0	0	0
83	1	1	2	3	4	3	0	0	0
84	1	2	4	0	0	0	0	0	0
85	3	3	5	0	0	0	0	0	0
86	3	1	4	1	2	6	4	3	1
87	3	5	5	5	3	3	0	0	0
88	3	3	2	4	4	6	0	0	0
89	1	3	1	0	0	0	0	0	0
90	5	4	2	0	0	0	0	0	0
91	3	0	3	4	4	5	2	7	3
92	4	1	0	4	1	7	0	0	0
93	3	2	5	4	4	4	0	0	0
94	2	2	4	0	0	0	0	0	0
95	3	4	4	0	0	0	0	0	0
96	5	1	4	5	5	4	0	0	0
97	3	1	0	4	4	3	0	0	0
98	3	4	5	2	5	3	0	0	0
99	0	3	8	0	0	0	0	0	0
100	1	6	4	0	0	0	0	0	0

Lampiran 3. Syntax program Matlab Batas kontrol dan ARL Peta Kendali ZIGP

```
clear all
clc
pi=[0.6 1 1.4];
w= [0 0.4 0.8];
xi= [0.2 0.5 0.7 0.8 0.9];
lambda=3;
n=5;
I1=eye(n);
for i=1:n;
    for j=1:n;
        for k=1:size(pi,2);
            for l= 1:size(xi,2);
                for m= 1:size(w,2);
                       I(i,j,k,l,m)=I1(i,j);
                       UCL(1,k,l,m)=lambda*(1-
w(1,m))+3*(((lambda*(1-
w(1,m)).*((pi(1,k)).^2+w(1,m)*lambda).*xi(1,l))./(2-
xi(1,l))).^0.5);
                       LCL01(1,k,l,m)=lambda*(1-w(1,m))-
3*(((lambda*(1-
w(1,m)).*((pi(1,k)).^2+w(1,m)*lambda).*xi(1,l))./(2-
xi(1,l))).^0.5);
                       if LCL01(1,k,l,m)>=0;
                        LCL(1,k,l,m)=LCL01(1,k,l,m);
                       else
                        LCL(1,k,l,m)=0;
                       end
                        delta(1,k,l,m)=(UCL(1,k,l,m)-
LCL(1,k,l,m))*0.1;

h0(i,1,k,l,m)=LCL(1,k,l,m)+delta(1,k,l,m)*(2*i-1);

h1(1,j,k,l,m)=LCL(1,k,l,m)+delta(1,k,l,m)*(2*j-1);

P0(i,j,k,l,m)=(((h1(1,j,k,l,m)+delta(1,k,l,m)-(1-
xi(1,l))*h0(i,1,k,l,m))/xi(1,l))-lambda*(1-w(1,m)))/(lambda*(1-
w(1,m))*((pi(1,k)^2)+w(1,m)*lambda));
                        P1(i,j,k,l,m)=(((h1(1,j,k,l,m)-
delta(1,k,l,m)-(1-xi(1,l))*h0(i,1,k,l,m))/xi(1,l))-lambda*(1-
w(1,m)))/(lambda*(1-w(1,m))*((pi(1,k)^2)+w(1,m)*lambda));
                        p0=round(P0);
                        p1=round(P1);
            if p0(i,j,k,l,m)>0;
                   q0(i,j,k,l,m)=w(1,m)+(1-w(1,m))*exp(-
lambda/pi(1,k))+(1-w(1,m))*sum(exp(-
((lambda+(1:p0(i,j,k,l,m))*(pi(1,k)-
1))/pi(1,k))).*((((lambda+(1:p0(i,j,k,l,m))*(pi(1,k)-
1)).^(0:(p0(i,j,k,l,m)-
1))).*lambda)./((pi(1,k).^(1:p0(i,j,k,l,m))).*factorial(1:p0(i,j,k
,l,m)))));
            elseif p0(i,j,k,l,m)==0;
                   q0(i,j,k,l,m)=w(1,m)+(1-w(1,m))*exp(-
lambda/pi(1,k));
```

```
            else
                   q0(i,j,k,l,m)=0;
            end
            if p1(i,j,k,l,m)>0;
                   q1(i,j,k,l,m)=w(1,m)+(1-w(1,m))*exp(-
lambda/pi(1,k))+(1-w(1,m))*sum(exp(-
((lambda+(1:p1(i,j,k,l,m))*(pi(1,k)-
1))/pi(1,k))).*((((lambda+(1:p1(i,j,k,l,m))*(pi(1,k)-
1)).^(0:(p1(i,j,k,l,m)-
1))).*lambda)./((pi(1,k).^(1:p1(i,j,k,l,m))).*factorial(1:p1(i,j,k
,l,m)))));
            elseif p1(i,j,k,l,m)==0;
                   q1(i,j,k,l,m)=w(1,m)+(1-w(1,m))*exp(-
lambda/pi(1,k));
            else
                q1(i,j,k,l,m)=0;
            end
                end
            end
        end
    end
end
for a=1:size(pi,2);
    for b=1:size(xi,2);
        for c=1:size(w,2);
            Q=q0-q1;
            R1=permute(Q,[2,1,3,4,5]);
            R2(:,:,a,b,c)=R1(:,:,a,b,c)*I(:,:,a,b,c);
            R=permute(R2,[2,1,3,4,5]);

ARL01(:,:,a,b,c)=median(sum((R(:,:,a,b,c)*(inv(I(:,:,a,b,c)-
Q(:,:,a,b,c)))),2));
            Z(a,b,c)=ARL01(:,:,a,b,c);
        end
        end
end
TabelARL=reshape(permute(Z,[1,3,2]),[(size(pi,2)*size(w,2)),size(x
i,2)]);
UCLS=squeeze(UCL);
LCLS=squeeze(LCL);
TabelUCL=reshape(permute(UCLS,[1,3,2]),[(size(pi,2)*size(w,2)),siz
e(xi,2)]);
TabelLCL=reshape(permute(LCLS,[1,3,2]),[(size(pi,2)*size(w,2)),siz
e(xi,2)]);
```

Lampiran 4. Hasil Syntax program Matlab Batas kontrol dan ARL Peta Kendali ZIGP

Tabel ARL

1.9010	1.2031	1.2038	1.2608	2.1257
1.0605	0.6079	0.6186	0.6186	0.7337
0.8090	0.4886	0.4414	0.4414	0.4414
2.3939	1.5133	1.3229	1.4039	1.4039
2.1315	1.7136	1.3656	0.7564	0.7564
2.2816	0.9325	0.7645	0.1278	0.1278
22.3775	11.2193	1.2203	1.0196	0.1081
16.5646	1.2903	1.0928	1.0665	0.0826
15.4014	1.1774	1.0041	0.1211	0.0826

Tabel UCL

4.0392	4.8000	5.2878	5.5456	5.8201
4.7321	6.0000	6.8129	7.2426	7.7001
5.4249	7.2000	8.3381	8.9397	9.5801
3.4757	4.7024	5.4889	5.9046	6.3472
3.7900	5.2467	6.1807	6.6744	7.2000
4.1850	5.9309	7.0502	7.6419	8.2718
1.8869	2.8289	3.4329	3.7521	4.0920
2.0283	3.0739	3.7442	4.0986	4.4758
2.2174	3.4014	4.1606	4.5618	4.9890

Tabel LCL

1.9608	1.2000	0.7122	0.4544	0.1799
1.2679	0.0000	0.0000	0.0000	0.0000
0.5751	0.0000	0.0000	0.0000	0.0000
0.1243	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000

Lampiran 5. Syntax program Matlab Batas kontrol dan ARL Peta Kendali ZIP

```
clear all
clc
pi=[0.6 1 1.4];
pc=[1 1 1];
w= [0 0.4 0.8];
xi= [0.2 0.5 0.7 0.8 0.9];
lambda=3;
n=5;
I1=eye(n);
for i=1:n;
    for j=1:n;
        for k=1:size(pi,2);
            for l= 1:size(xi,2);
                for m= 1:size(w,2);
                       I(i,j,k,l,m)=I1(i,j);
                       UCL(1,k,l,m)=lambda*(1-
w(1,m))+3*(((lambda*(1-
w(1,m)).*((pc(1,k)).^2+w(1,m)*lambda).*xi(1,l))./(2-
xi(1,l))).^0.5);
                       LCL01(1,k,l,m)=lambda*(1-w(1,m))-
3*(((lambda*(1-
w(1,m)).*((pc(1,k)).^2+w(1,m)*lambda).*xi(1,l))./(2-
xi(1,l))).^0.5);
                       if LCL01(1,k,l,m)>=0;
                        LCL(1,k,l,m)=LCL01(1,k,l,m);
                       else
                        LCL(1,k,l,m)=0;
                       end
                        delta(1,k,l,m)=(UCL(1,k,l,m)-
LCL(1,k,l,m))*0.1;

h0(i,1,k,l,m)=LCL(1,k,l,m)+delta(1,k,l,m)*(2*i-1);

h1(1,j,k,l,m)=LCL(1,k,l,m)+delta(1,k,l,m)*(2*j-1);

P0(i,j,k,l,m)=(((h1(1,j,k,l,m)+delta(1,k,l,m)-(1-
xi(1,l))*h0(i,1,k,l,m))/xi(1,l))-lambda*(1-w(1,m)))/(lambda*(1-
w(1,m))*((pi(1,k)^2)+w(1,m)*lambda));
                        P1(i,j,k,l,m)=(((h1(1,j,k,l,m)-
delta(1,k,l,m)-(1-xi(1,l))*h0(i,1,k,l,m))/xi(1,l))-lambda*(1-
w(1,m)))/(lambda*(1-w(1,m))*((pi(1,k)^2)+w(1,m)*lambda));
                        p0=round(P0);
                        p1=round(P1);
            if p0(i,j,k,l,m)>0;
                   q0(i,j,k,l,m)=w(1,m)+(1-w(1,m))*exp(-
lambda/pi(1,k))+(1-w(1,m))*sum(exp(-
((lambda+(1:p0(i,j,k,l,m))*(pi(1,k)-
1))/pi(1,k))).*((((lambda+(1:p0(i,j,k,l,m))*(pi(1,k)-
1)).^(0:(p0(i,j,k,l,m)-
1))).*lambda)./((pi(1,k).^(1:p0(i,j,k,l,m))).*factorial(1:p0(i,j,k
,l,m)))));
            elseif p0(i,j,k,l,m)==0;
                   q0(i,j,k,l,m)=w(1,m)+(1-w(1,m))*exp(-
lambda/pi(1,k));
```

```
                else
                        q0(i,j,k,l,m)=0;
                end
                if p1(i,j,k,l,m)>0;
                        q1(i,j,k,l,m)=w(1,m)+(1-w(1,m))*exp(-
lambda/pi(1,k))+(1-w(1,m))*sum(exp(-
((lambda+(1:p1(i,j,k,l,m))*(pi(1,k)-
1))/pi(1,k))).*((((lambda+(1:p1(i,j,k,l,m))*(pi(1,k)-
1)).^(0:(p1(i,j,k,l,m)-
1))).*lambda)./((pi(1,k).^(1:p1(i,j,k,l,m))).*factorial(1:p1(i,j,k
,l,m)))));
                elseif p1(i,j,k,l,m)==0;
                        q1(i,j,k,l,m)=w(1,m)+(1-w(1,m))*exp(-
lambda/pi(1,k));
                else
                    q1(i,j,k,l,m)=0;
                end
                    end
                end
            end
        end
end
for a=1:size(pi,2);
    for b=1:size(xi,2);
        for c=1:size(w,2);
            Q=q0-q1;
            R1=permute(Q,[2,1,3,4,5]);
            R2(:,:,a,b,c)=R1(:,:,a,b,c)*I(:,:,a,b,c);
            R=permute(R2,[2,1,3,4,5]);

ARL01(:,:,a,b,c)=median(sum((R(:,:,a,b,c)*(inv(I(:,:,a,b,c)-
Q(:,:,a,b,c)))),2));
            Z(a,b,c)=ARL01(:,:,a,b,c);
        end
        end
end
TabelARL=reshape(permute(Z,[1,3,2]),[(size(pi,2)*size(w,2)),size(x
i,2)]);
UCLS=squeeze(UCL);
LCLS=squeeze(LCL);
TabelUCL=reshape(permute(UCLS,[1,3,2]),[(size(pi,2)*size(w,2)),siz
e(xi,2)]);
TabelLCL=reshape(permute(LCLS,[1,3,2]),[(size(pi,2)*size(w,2)),siz
e(xi,2)]);
```

Lampiran 6. Hasil Syntax program Matlab Batas kontrol dan ARL Peta Kendali ZIP

Tabel ARL

5.0236	4.2085	16.5160	17.0169	47.2517
1.0605	0.6079	0.6186	0.6186	0.7337
0.4811	0.4414	0.4414	0.4414	0.4414
2.3939	1.7884	1.4039	1.4039	1.4039
2.1315	1.7136	1.3656	0.7564	0.7564
2.2428	0.8007	0.7645	0.1961	0.1278
22.3775	11.2406	1.2344	1.1669	1.1403
16.5646	1.2903	1.0928	1.0665	0.0826
12.1357	1.1774	0.9985	0.1179	0.0826

Tabel UCL

4.7321	6.0000	6.8129	7.2426	7.7001
4.7321	6.0000	6.8129	7.2426	7.7001
4.7321	6.0000	6.8129	7.2426	7.7001
3.7900	5.2467	6.1807	6.6744	7.2000
3.7900	5.2467	6.1807	6.6744	7.2000
3.7900	5.2467	6.1807	6.6744	7.2000
2.0283	3.0739	3.7442	4.0986	4.4758
2.0283	3.0739	3.7442	4.0986	4.4758
2.0283	3.0739	3.7442	4.0986	4.4758

Tabel LCL

1.2679	0.0000	0.0000	0.0000	0.0000
1.2679	0.0000	0.0000	0.0000	0.0000
1.2679	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000