

LAMPIRAN. 1

(Contoh keluaran dari program metode BCa bootstrap
untuk parameter regresi linier)

Pada lampiran ini hasil secara lengkap hanya akan diberikan untuk $B=25,100$. Untuk $B=500,700$ hanya akan diberikan selang kepercayaan 90% dan jarak selangnya.

File to Work : xfile
Replication[1-800] : 25
Level Alva : 0.05

$\theta_0 = 3.3603504$ $s(b_0) = 2.0147$
 $\theta_1 = 0.4894673$ $s(b_1) = 0.0050$
 $\theta_2 = 0.0093448$ $s(b_2) = 0.0008$

$K_0 = -0.3572711349$
 $K_1 = -0.0253203101$
 $K_2 = 0.00056448051$

Selang kepercayaan klasik sbb:
 $-0.87926 \leq \theta_0 \leq 7.78446$ Lebar: 8.66732
 $0.485129 \leq \theta_1 \leq 0.506870$ Lebar: 0.02174
 $0.007418 \leq \theta_2 \leq 0.01098$ Lebar: 0.00356

Error Error Central

0.104 0.104
-2.667 -2.667
-1.429 -1.429
-0.241 -0.241
-0.699 -0.699
-0.685 -0.685
1.268 1.268
2.328 2.328
-3.832 -3.832
1.709 1.709
-1.715 -1.715
3.309 3.309
-0.979 -0.979
2.467 2.467
1.062 1.062

Interval ke dua :

1.1866517067 $\leq \theta_0 \leq$ 5.2121089697 Lebar:4.0254573

0.4918010831 $\leq \theta_1 \leq$ 0.5022431910 Lebar:0.0104421

0.0088422382 $\leq \theta_2 \leq$ 0.0105084218 Lebar:0.0016662

Sehingga didapat selang kepercayaan den Low dan Up Sbb:

3.2472410202 $\leq \theta_0 \leq$ 3.3723883629 Lebar : 0.1251473

0.4956429899 $\leq \theta_1 \leq$ 0.4956429899 Lebar : 0.0000000

0.0093321269 $\leq \theta_2 \leq$ 0.0094231153 Lebar : 0.0000910

Boostrap Process ... replikasi ke 25 :

Kolom ke dua untuk koefisien regresi θ_0^{j*} , kolom ke tiga untuk θ_1^{j*} dan kolom ke empat untuk

θ_2^{j*} .

Number	b0	b1	b2
1	2.20138	0.49737	0.00944
2	3.25545	0.49637	0.00807
3	7.71079	0.50005	0.00726
4	5.88211	0.50021	0.00789
5	5.71854	0.49861	0.00814
6	1.17750	0.49588	0.00973
7	1.69309	0.49516	0.00958
8	5.08417	0.49866	0.00933
9	4.35070	0.49432	0.00884
10	4.20485	0.49908	0.00865
11	2.70253	0.49769	0.00898
12	5.54536	0.49067	0.00874
13	1.59854	0.48977	0.00998
14	3.53281	0.49197	0.00917
15	3.68284	0.50157	0.00846
16	6.04381	0.49515	0.00843
17	4.50908	0.50209	0.00825
18	5.99717	0.50607	0.00719
19	3.65785	0.49721	0.00880
20	4.16763	0.49896	0.00852
21	3.10125	0.49259	0.00956
22	2.18256	0.49427	0.00944
23	2.35203	0.49377	0.00953
24	2.44613	0.49866	0.00911
25	3.38035	0.48947	0.00934

File to Work : xfile
 Replication[1-800] : 100
 Level Alva : 0.05

Interval ke dua :

1.7935662270 $\leq \theta_0 \leq$ 6.3177909851 Lebar:4.5242248
 0.4902446866 $\leq \theta_1 \leq$ 0.5022431910 Lebar:0.0119985
 0.0082264617 $\leq \theta_2 \leq$ 0.0099682687 Lebar:0.0017418

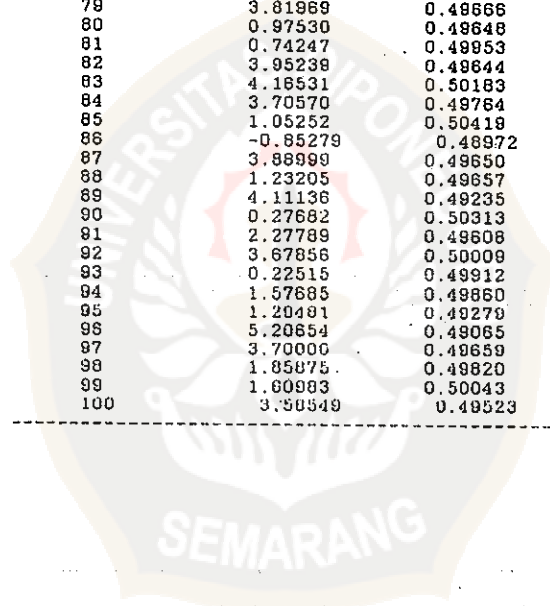
Sehingga didapat selang kepercayaan den Low dan Up Sbb:

3.7702496052 $\leq \theta_0 \leq$ 4.2026696205 Lebar : 0.4324200
 0.4961348176 $\leq \theta_1 \leq$ 0.4965882599 Lebar : 0.0004534
 0.0090854689 $\leq \theta_2 \leq$ 0.0090922145 Lebar : 0.0000067

Boostrap Process ... replikasi ke 100 :

Number	b0	b1	b2
1	2.20138	0.49737	0.00944
2	3.25545	0.49637	0.00907
3	7.71979	0.50005	0.00726
4	5.68211	0.50021	0.00789
5	5.71854	0.49881	0.00814
6	1.17750	0.49588	0.00973
7	1.69309	0.49516	0.00958
8	5.08417	0.48866	0.00933
9	4.35070	0.49432	0.00884
10	4.20485	0.49908	0.00865
11	2.70253	0.49769	0.00898
12	5.54536	0.49067	0.00874
13	1.58854	0.48977	0.00898
14	3.53281	0.49197	0.00917
15	3.88284	0.50157	0.00846
16	6.04381	0.49515	0.00843
17	4.50908	0.50209	0.00825
18	5.89717	0.50607	0.00719
19	3.65795	0.49721	0.00880
20	4.16763	0.49896	0.00852
21	3.10125	0.49259	0.00856
22	2.18256	0.48427	0.00844
23	2.35203	0.49377	0.00953
24	2.44613	0.49866	0.00911
25	3.36035	0.48947	0.00934
26	4.65201	0.49203	0.00907
27	8.54014	0.50296	0.00676
28	1.65148	0.50071	0.00938
29	2.15948	0.49865	0.00925
30	1.84634	0.49788	0.00959
31	0.65357	0.49017	0.01042
32	3.17915	0.49245	0.00922
33	4.89532	0.50241	0.00795
34	3.20402	0.50322	0.00855
35	1.09504	0.49071	0.01021
36	2.54435	0.49012	0.00971
37	2.16584	0.49306	0.00953
38	0.73827	0.48138	0.01032
39	2.71676	0.49279	0.00947
40	2.64004	0.49598	0.00931
41	1.75443	0.49601	0.00953
42	2.55597	0.49390	0.00942
43	7.96218	0.50177	0.00707
44	0.37665	0.49259	0.01026
45	2.39937	0.49639	0.00940
46	4.98045	0.49279	0.00863
47	3.28927	0.48787	0.00951
48	3.38437	0.49830	0.00868
49	5.11163	0.49351	0.00867
50	3.25071	0.49495	0.00947
51	-0.08198	0.49669	0.01041
52	4.74108	0.49855	0.00889
53	0.72106	0.48612	0.01077
54	3.81326	0.49311	0.00915
55	3.13495	0.49426	0.00909
56	2.22737	0.48538	0.00949
57	0.22263	0.49657	0.01017

58	1.51744	0.48512	0.01050
59	1.84159	0.49491	0.00940
60	2.56607	0.49000	0.00974
61	1.71726	0.50276	0.00870
62	2.06522	0.49672	0.00854
63	0.48881	0.49434	0.01016
64	1.81226	0.49353	0.00989
65	2.78446	0.48823	0.01006
66	3.77010	0.49523	0.00895
67	1.72448	0.50165	0.00920
68	0.87333	0.49730	0.00875
69	-0.27177	0.50360	0.00969
70	0.58740	0.49143	0.01029
71	4.32739	0.49468	0.00899
72	-0.43716	0.49542	0.01018
73	3.43883	0.49248	0.00933
74	1.90731	0.48861	0.01000
75	4.03671	0.49393	0.00886
76	4.14146	0.49915	0.00847
77	5.31947	0.49323	0.00870
78	3.70589	0.49373	0.00812
79	3.81969	0.49666	0.00896
80	0.97530	0.49648	0.00969
81	0.74247	0.49953	0.00850
82	3.95238	0.49644	0.00855
83	4.16531	0.50183	0.00806
84	3.70570	0.49764	0.00866
85	1.05252	0.50418	0.00890
86	-0.85279	0.48972	0.01097
87	3.88999	0.49650	0.00902
88	1.23205	0.49657	0.00987
89	4.11136	0.49235	0.00907
90	0.27682	0.50313	0.00931
91	2.27789	0.49608	0.00946
92	3.67856	0.50009	0.00868
93	0.22515	0.49912	0.00963
94	1.57685	0.49860	0.00954
95	1.20481	0.49279	0.01012
96	5.20654	0.49065	0.00895
97	3.70000	0.49659	0.00902
98	1.85875	0.49820	0.00841
99	1.60983	0.50043	0.00929
100	3.90549	0.49523	0.00898



File to Work : xfile
Replication[1-800] : 500
Level Alva : 0.05

Interval ke dua :

1.6062479019 $\leq \theta_0 \leq$ 6.4571227729 Lebar:4.8508749
0.4896069169 $\leq \theta_1 \leq$ 0.5022062063 Lebar:0.0125993
0.0082356995 $\leq \theta_2 \leq$ 0.0101509402 Lebar:0.0019152

Sehingga didapat selang kepercayaan den Low dan Up Sbb:

3.5628972054 $\leq \theta_0 \leq$ 3.7089419365 Lebar : 0.1460447
0.4961348176 $\leq \theta_1 \leq$ 0.4961954057 Lebar : 0.0000606
0.0092557343 $\leq \theta_2 \leq$ 0.0092640556 Lebar : 0.0000083

File to Work : xfile
Replication[1-800] : 700
Level Alva : 0.05

Interval ke dua :

1.6062479019 $\leq \theta_0 \leq$ 6.5237348974 Lebar: 4.9174870
0.4896946549 $\leq \theta_1 \leq$ 0.5021845698 Lebar: 0.0124899
0.0082356995 $\leq \theta_2 \leq$ 0.0101882005 Lebar: 0.0019525

Sehingga didapat selang kepercayaan den Low dan Up Sbb:

3.7702496052 $\leq \theta_0 \leq$ 3.9285492897 Lebar : 0.1582997
0.4960479140 $\leq \theta_1 \leq$ 0.4960459914 Lebar : 0.0000120
0.0092253797 $\leq \theta_2 \leq$ 0.0092250579 Lebar : 0.0000252

LAMPIRAN 2

(Gambar-gambar grafik dari variasi harga B, B= 25,100,500,700)

Gambar -1 : Grafik deskripsi untuk ketiga koefisien regresi hasil

bootstrap dengan mengambil harga B=25. Kolom pertama

histogram untuk ketiga koefisien regresi θ_0^* , θ_1^* dan θ_2^* .

Dan garis putus-putus tegak merupakan batas selang

kepercayaan 90%. Dan kolom kedua histogram dari

$$K_{nj}^* = \sqrt{n} \begin{pmatrix} \hat{\theta}_j^* \\ \hat{\theta}_j \end{pmatrix}$$

Gambar -2: Grafik deskripsi untuk ketiga koefisien regresi hasil

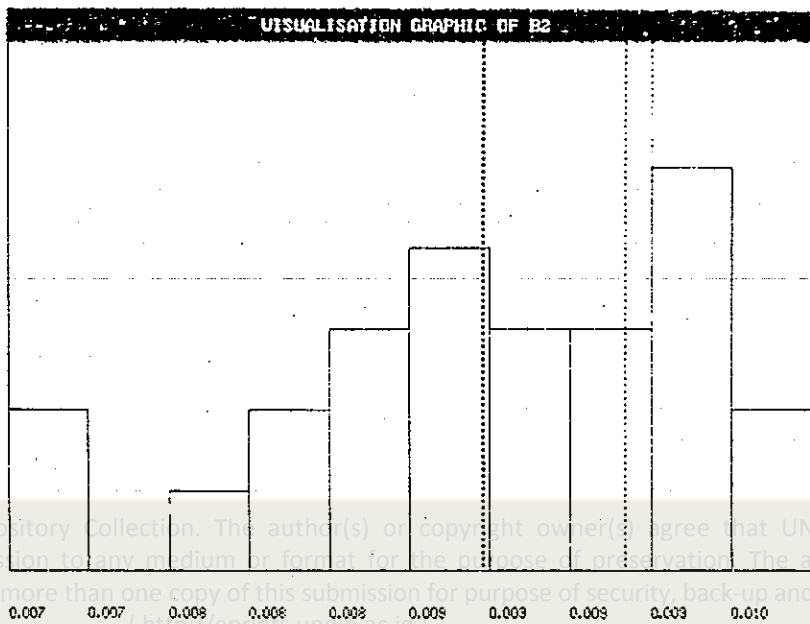
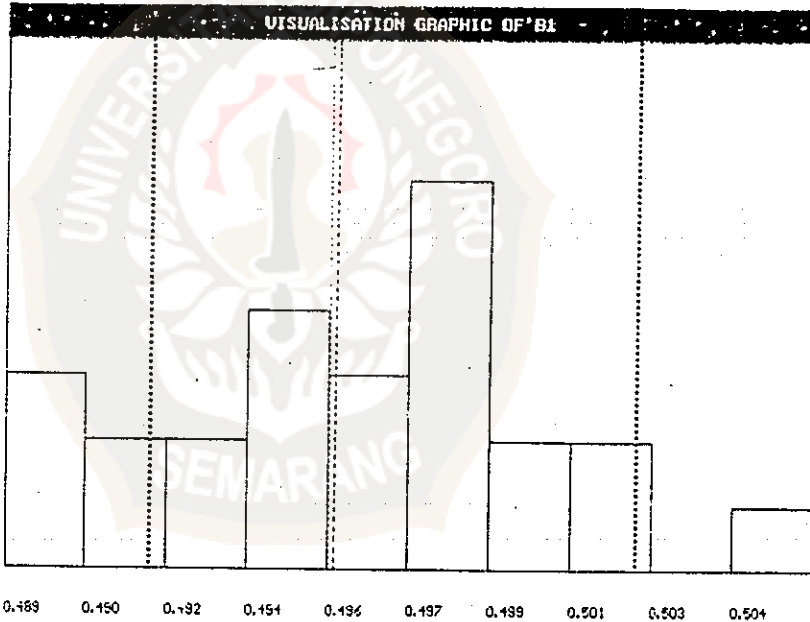
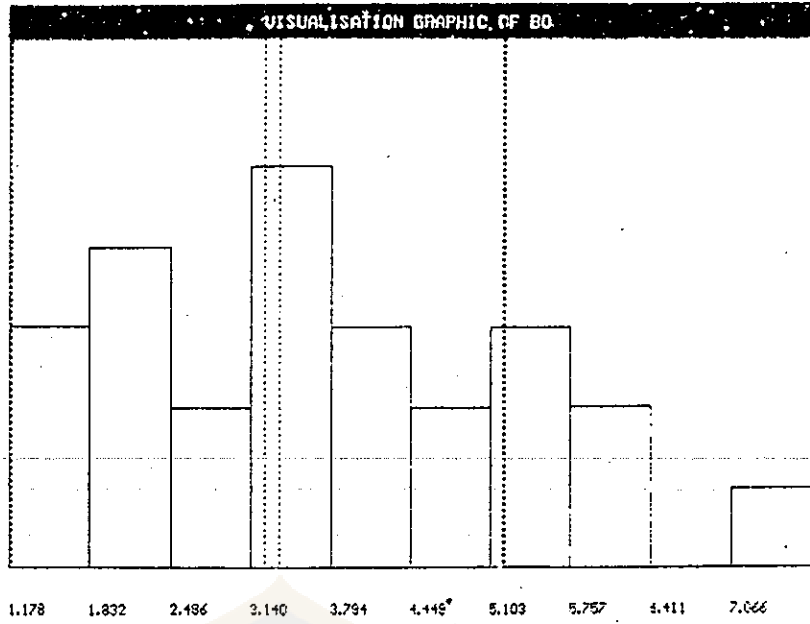
bootstrap dengan mengambil harga B=100.

Gambar -3: Grafik deskripsi untuk ketiga koefisien regresi hasil

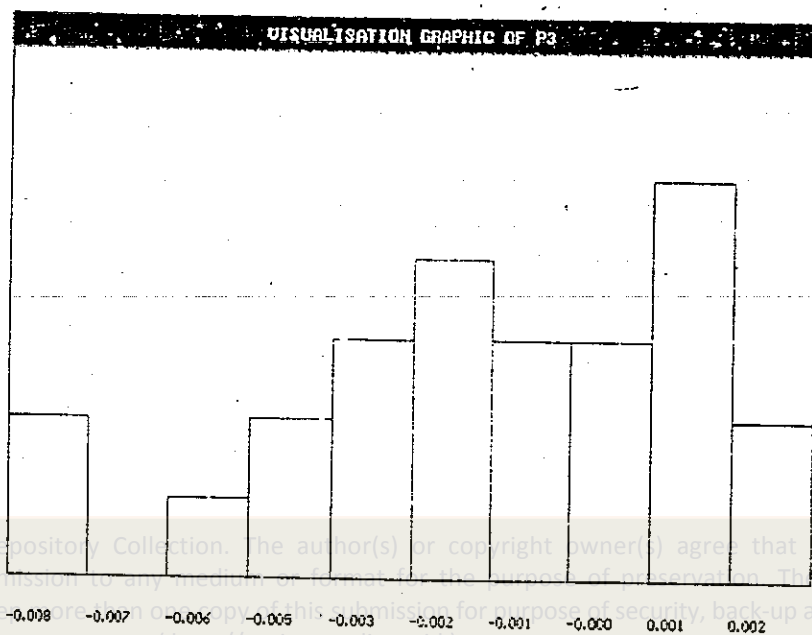
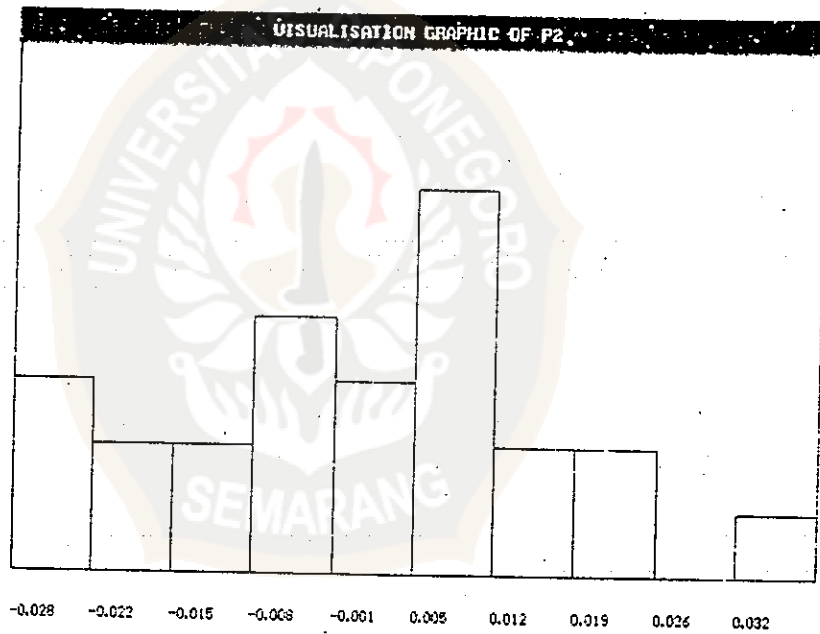
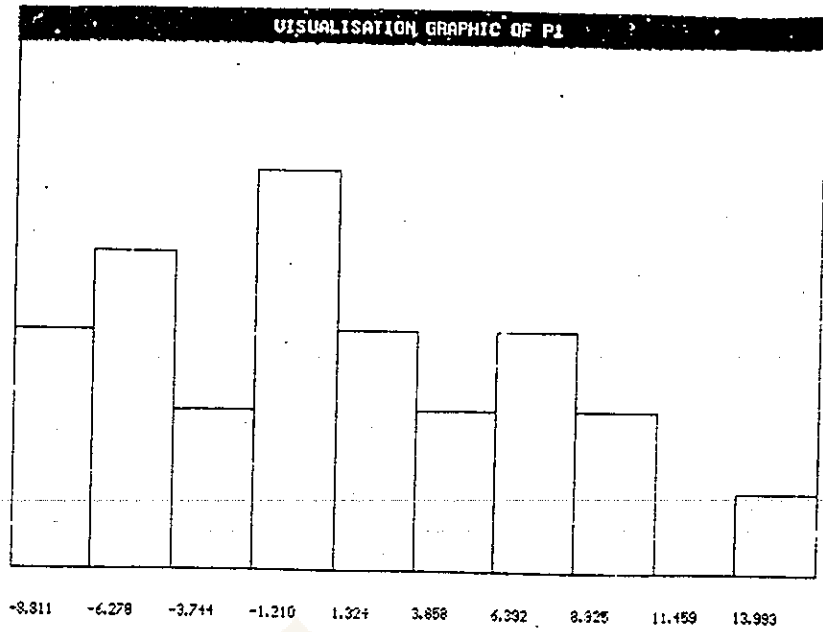
bootstrap dengan mengambil harga B=500.

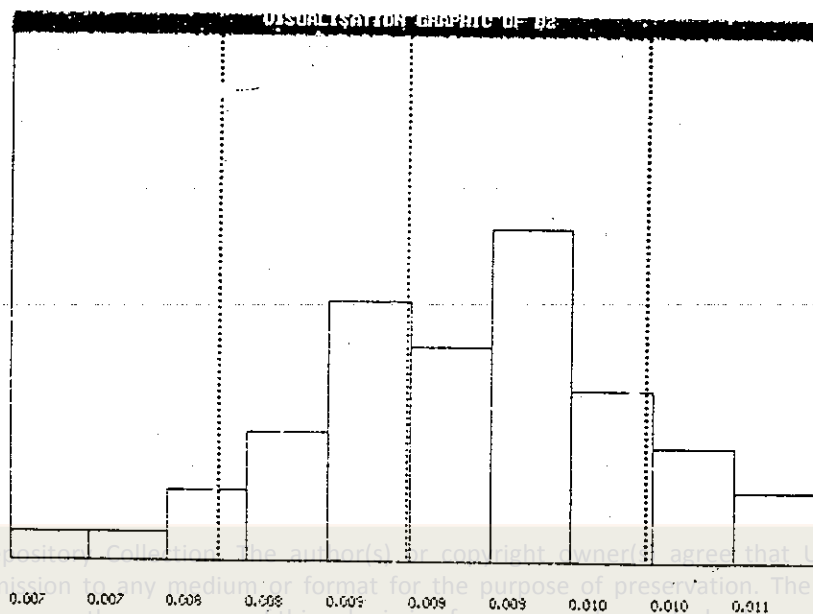
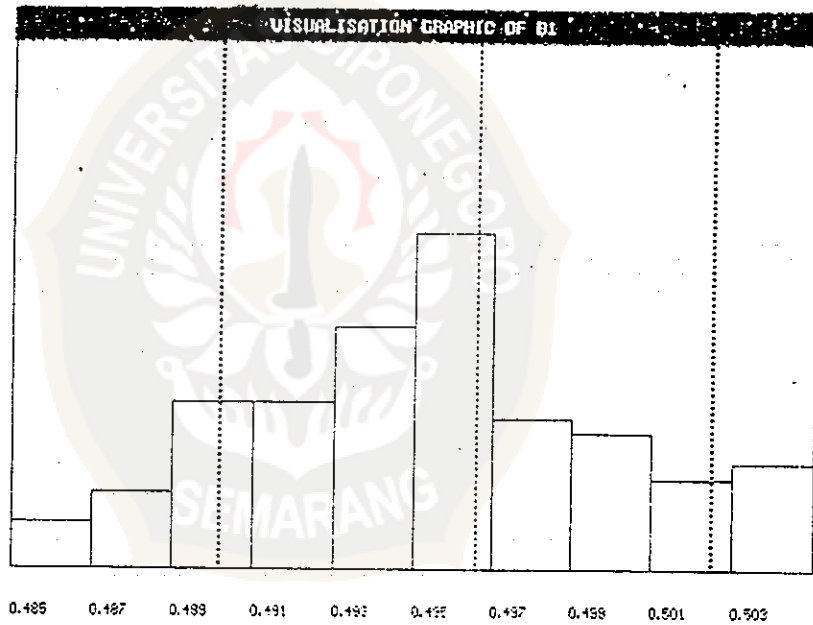
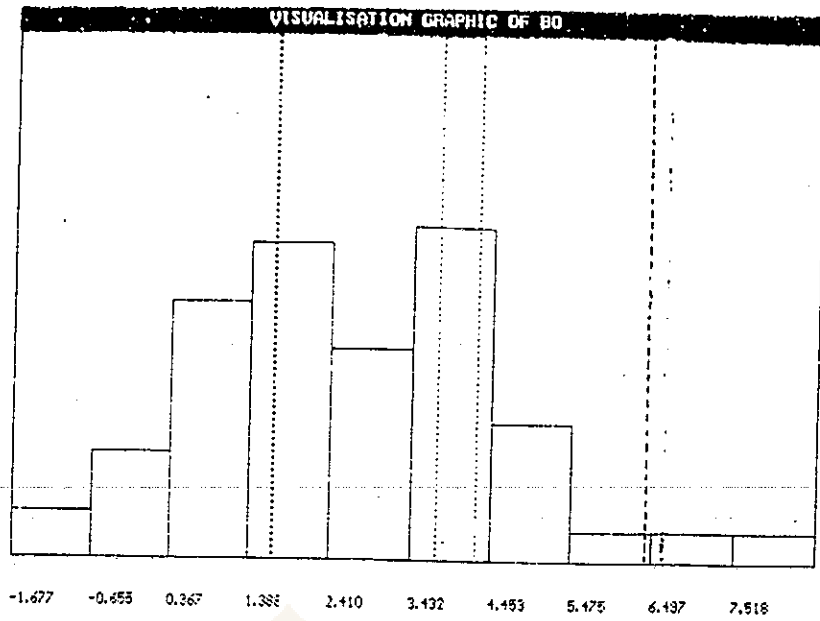
Gambar -4: Grafik deskripsi untuk ketiga koefisien regresi hasil

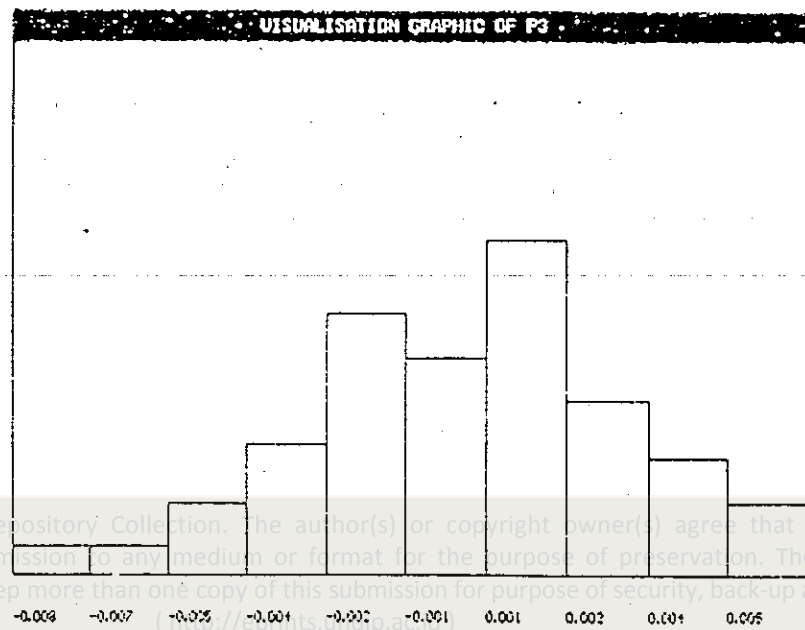
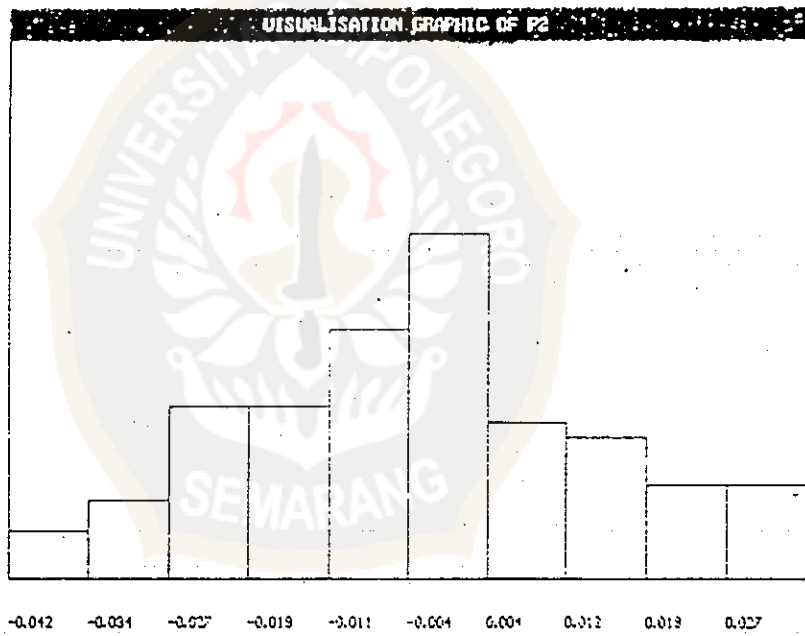
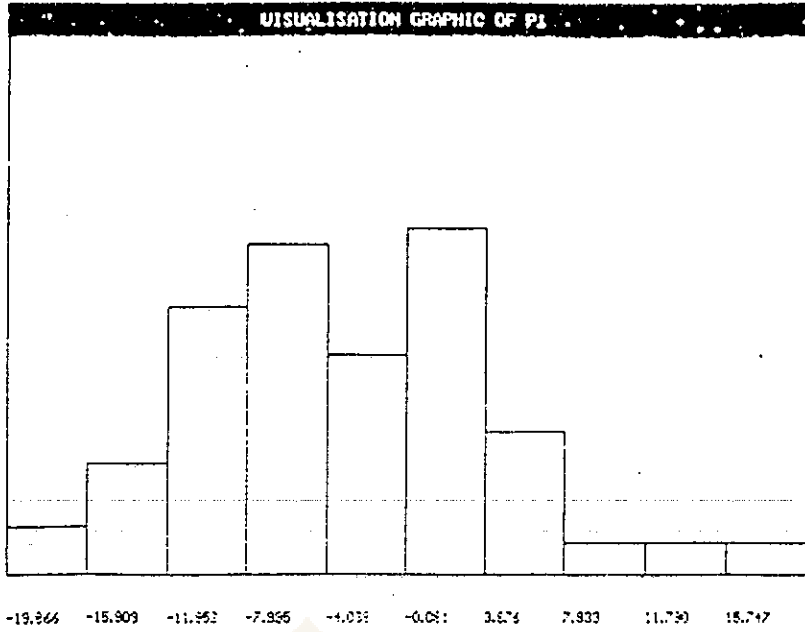
bootstrap dengan mengambil harga B=700.

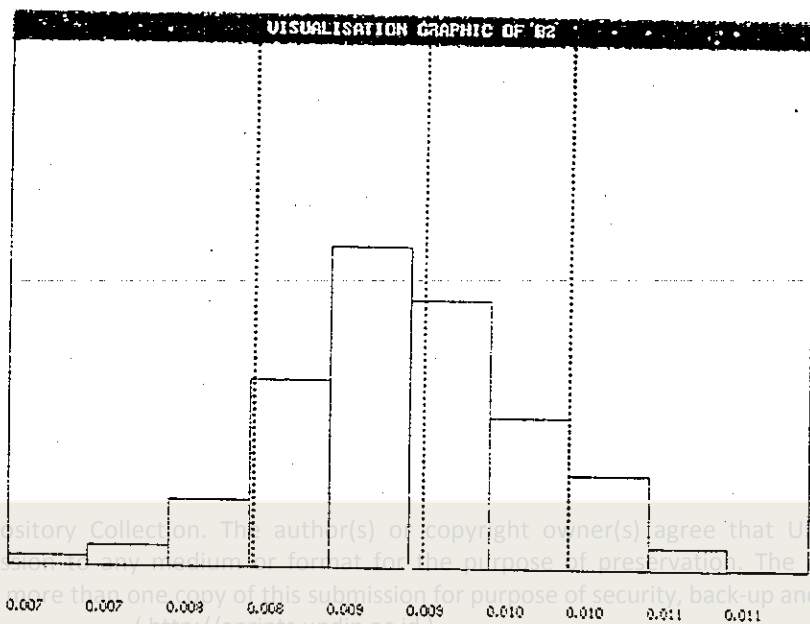
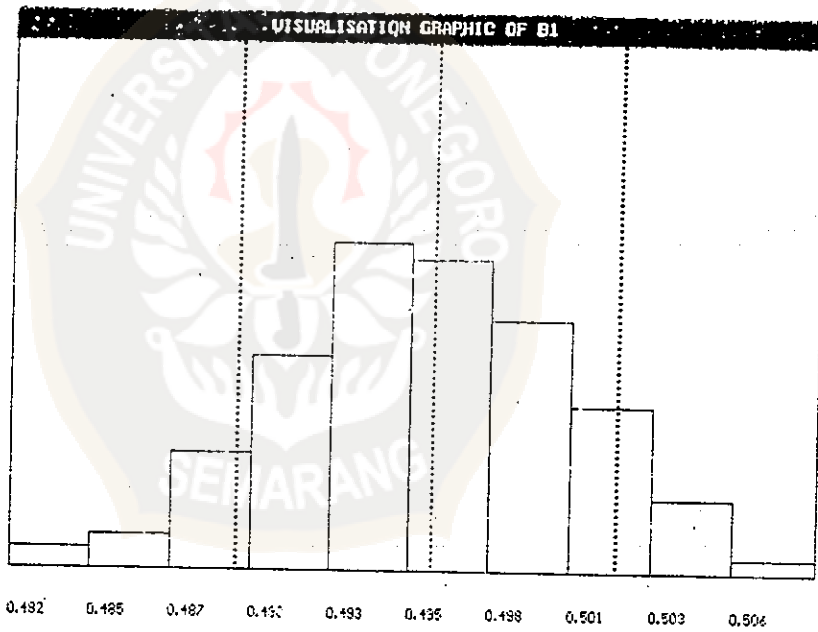
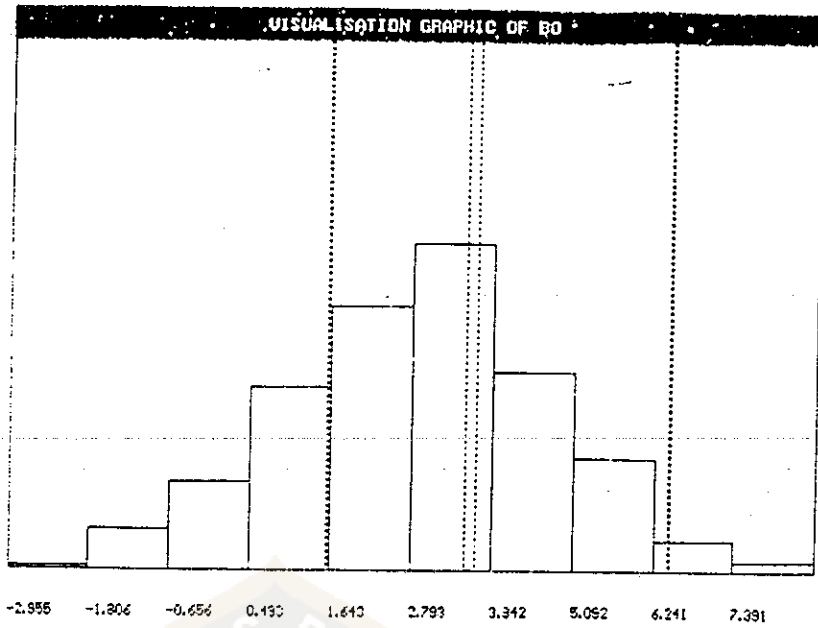


Gambar -1

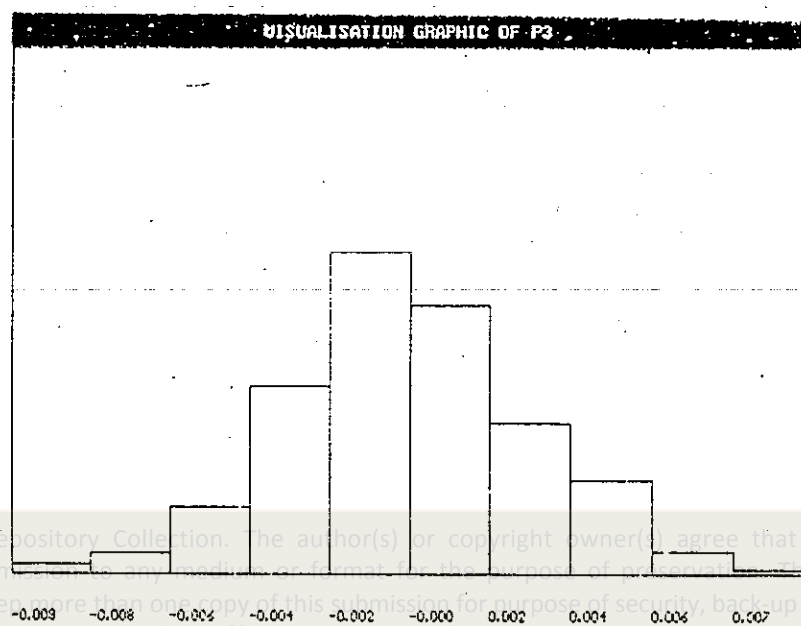
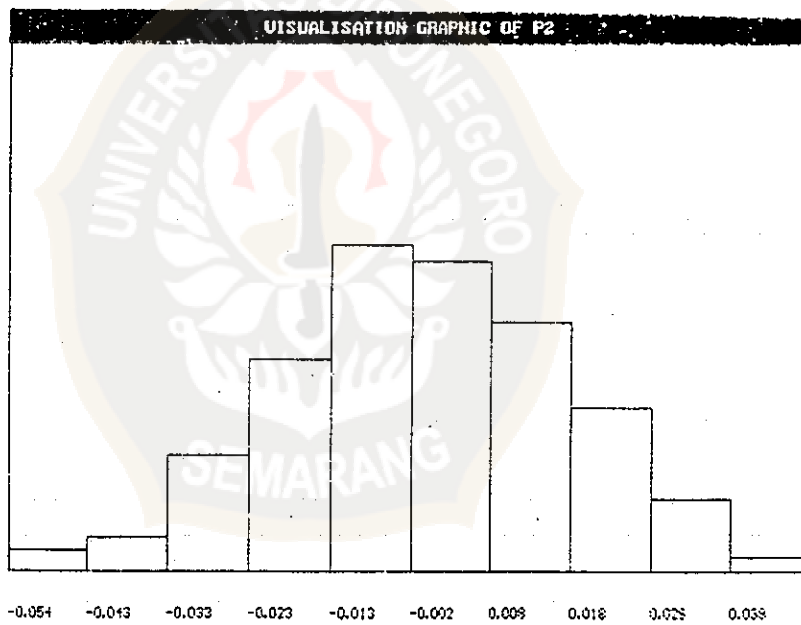
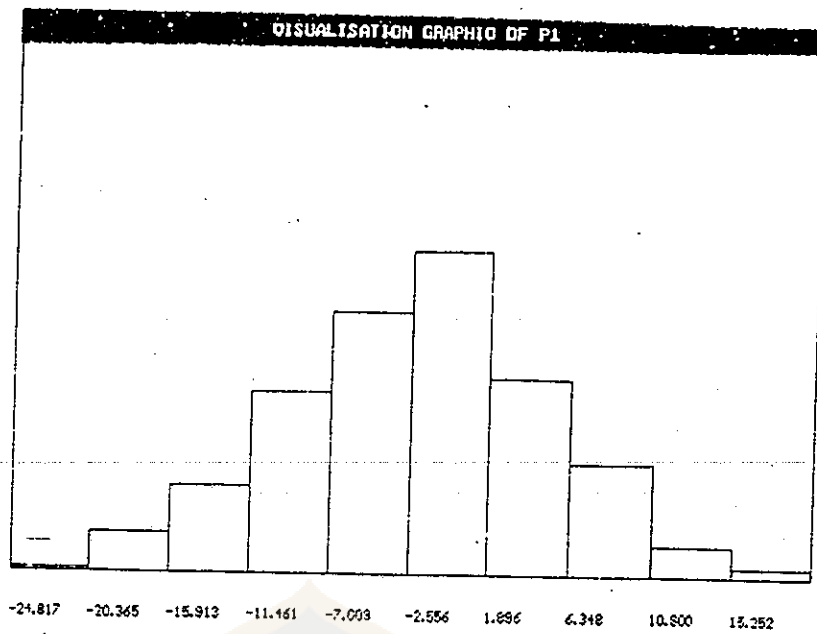


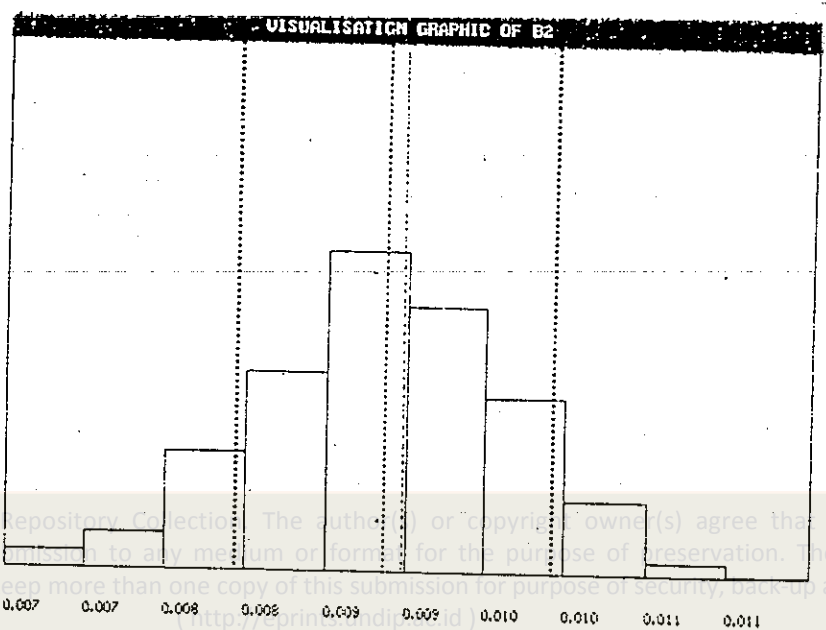
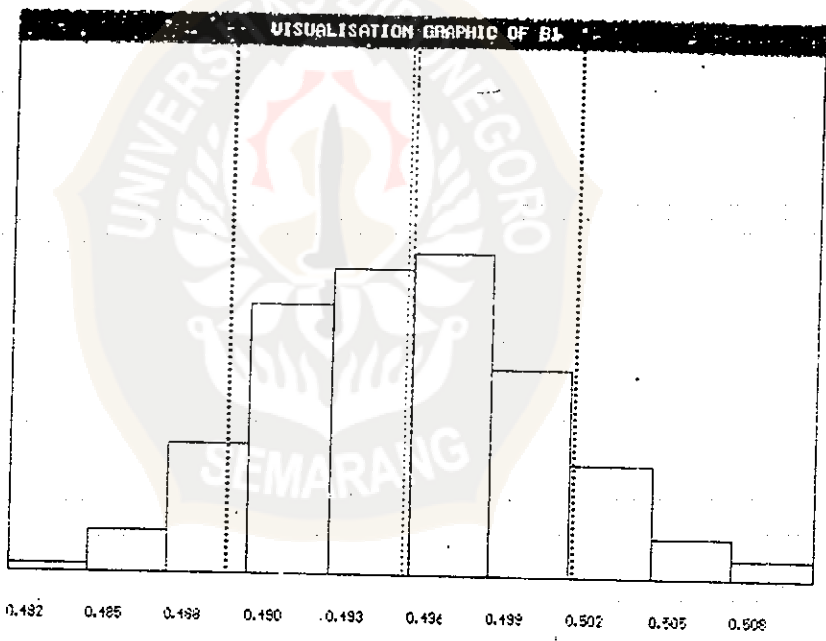
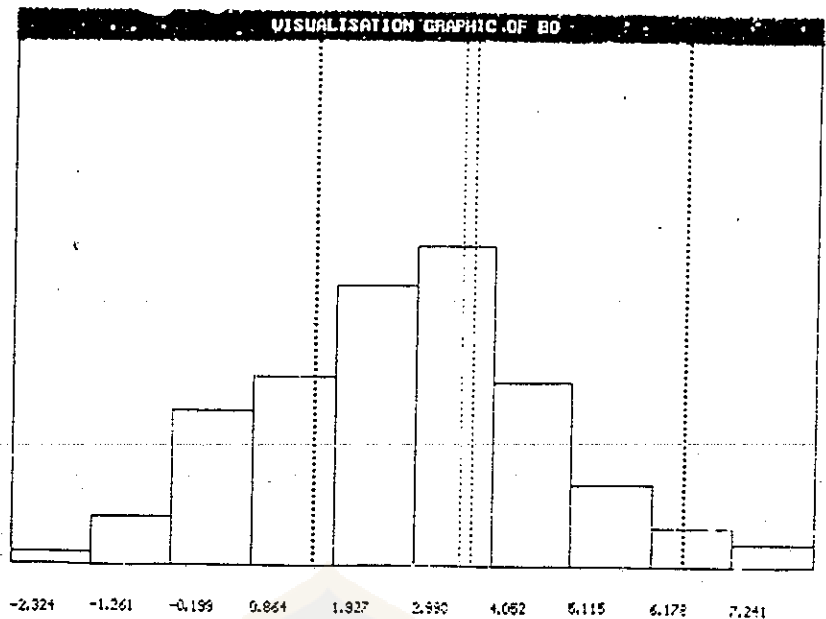






Gambar -3





Gambar -4

