

# SBOX Analyzer

Which bit do you choose?

8-bit

4-bit

How to use

## STEP 1

If you want to do an 8-bit analysis, you should click the 8-bit button.

SBOX Analysis

Dosya Seç Dosya seçilmedi

Random Generate Import Export Analysis Export Pdf Upload Excel File

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00																
10																
20																
30																
40																
50																
60																
70																
80																
90																
A0																
B0																
C0																
D0																
E0																
F0																

Evalatuion	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum							
Minimum							
Avarage							

## STEP 2

If you want to make an analysis consisting of random numbers, you should click on the random generate button.

SBOX Analysis

Dosya Seç

Dosya seçilmedi

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

+	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00																
10																
20																
30																
40																
50																
60																
70																
80																
90																
A0																
B0																
C0																
D0																
E0																
F0																

Evalatuion	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum							
Minimum							
Avarage							

SBOX Analysis

localhost:44393 web sitesinin mesaji

Enter the Sbox as comma separated values.

148,135,42,194,242,51,196,133,213,240,129,45,149,13,40,63,176,142,255,152,

Tamam

İptal

## STEP 3

If you have numbers that you have prepared beforehand, you should enter them by putting a comma between the numbers after clicking the import button.

## SBOX Analysis

Dosya Seç Dosya seçilmedi

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00																
10																
20																
30																
40																
50																
60																
70																
80																
90																
A0																
B0																
C0																
D0																
E0																
F0																

Evalatuion	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum							
Minimum							
Avarage							

## SBOX Analysis

localhost:44393 web sitesinin mesaji

Ctrl + C to copy the Sbox

25,7,97,72,70,59,163,147,31,230,67,33,77,73,248,145,181,216,226,103,207,88

Random Generate

Import

Export

Analysis

Tamam

İptal

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	19	07	61	48	46	3B	A3	93	1F	E6	43	21	4D	49	F8	91
10	B5	D8	E2	67	CF	59	41	FB	5C	5E	BA	9B	0C	92	6E	60
20	6B	9D	CB	3E	DC	E4	0B	0F	FC	53	8C	B1	D7	34	F7	15
30	4F	14	7B	70	E8	F3	F1	69	89	CE	06	7C	B6	A2	45	B4
40	FA	DA	44	4A	75	D1	A6	1E	26	6A	72	EB	38	03	EE	AB
50	05	80	7E	54	4E	FD	7F	22	C8	CD	40	24	D9	C3	DE	5A
60	99	47	D6	27	F4	7A	6D	E7	01	3D	ED	AA	AD	BC	7D	08
70	57	9C	E9	1A	DD	BF	BE	2E	52	A8	A1	B7	04	84	71	11
80	09	4B	EF	16	FE	56	88	8F	AC	12	6C	76	79	78	39	55
90	73	E1	AE	A9	42	35	00	20	68	1C	82	65	AF	10	BB	90
A0	31	4C	18	29	77	B9	36	B2	2F	E0	A0	EA	B3	8A	37	C9
B0	A5	9E	DB	25	8D	63	C5	6F	66	B8	2C	5B	CC	64	32	5F
C0	C1	51	50	8B	23	3C	13	9A	F6	1B	A7	E5	D0	1D	CA	96
D0	74	DF	17	30	2B	0E	62	C7	EC	D2	5D	C0	D3	02	D4	83
E0	9F	F5	0A	58	F9	C6	A4	86	97	E3	3A	BD	94	87	2A	C2
F0	F2	33	C4	85	D5	F0	81	2D	95	0D	28	3F	B0	8E	FF	98

## STEP 4

If you want to get randomly generated numbers, you can click the export button.

## SBOX Analysis

Dosya Seç

Dosya seçilmedi

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00																
10																
20																
30																
40																
50																
60																
70																
80																
90																
A0																
B0																
C0																
D0																
E0																
F0																

Evalatuion	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum							
Minimum							
Avarage							

## STEP 5

If you have an excel file, you should select your excel file from the select file button and then click the upload excel file button.

## SBOX Analysis

Dosya Seç

ExcelTable.xlsx

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	06	29	50	4D	2B	CF	DB	01	B2	3D	A0	F6	3A	C6	23	18
10	B5	30	44	33	B1	45	6E	35	65	ED	0F	7B	51	7A	54	DC
20	A7	EC	1A	38	5F	F8	4E	63	12	4A	03	80	92	5D	2C	3C
30	B7	B3	52	82	24	39	94	E9	A5	6D	F7	D7	15	E3	B8	96
40	FD	2F	B6	5E	C0	76	D9	89	71	D4	66	D8	90	AD	F1	FE
50	08	81	21	EA	5B	AA	A4	43	F0	BC	BE	C4	84	32	E7	22
60	10	AE	A6	31	0B	1D	72	DE	CB	DA	7D	58	75	2E	4C	F9
70	70	98	F2	AC	C1	C2	73	00	8D	09	8A	02	3F	26	95	D0
80	8F	CC	E1	0A	DF	AF	A1	55	E2	9E	CA	60	C7	F5	FF	CE
90	EF	5C	36	88	A8	68	E6	E8	7E	6A	1F	91	47	C8	04	A3
A0	07	8E	34	C9	62	49	97	86	2D	EB	BD	67	41	D1	EE	61
B0	FC	FB	11	6F	77	0D	D5	57	40	BF	59	05	1C	6C	D2	B0
C0	E0	7C	0C	78	14	9C	53	83	19	4B	A2	9F	B4	3E	42	28
D0	9B	9D	74	BA	E5	8B	7F	56	BB	2A	FA	B9	17	3B	13	4F
E0	37	D6	F3	16	C3	79	0E	E4	85	6B	1B	27	CD	A9	AB	93
F0	48	8C	64	D3	F4	46	1E	9A	DD	C5	99	87	25	20	5A	69

Evalatuion	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum	0.1328%	3.9062%	0.92%	94	1.15%	0.5833%	
Minimum	0.0703%	1.5625%	0.78%	110	0.65%	0.4167%	
Avarage	0.1156%	2.7344%	0.82%	98	0.0722%	0.5278%	

## STEP 6

After clicking one of the random generate, import and upload excel file buttons, you can click the analysis button and see the analysis results.

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	06	29	50	4D	2B	CF	DB	01	B2	3D	A0	F6	3A	C6	23	18
10	B5	30	44	33	B1	45	6E	35	65	ED	0F	7B	51	7A	54	DC
20	A7	EC	1A	38	5F	F8	4E	63	12	4A	03	80	92	5D	2C	3C
30	B7	B3	52	82	24	39	94	E9	A5	6D	F7	D7	15	E3	B8	96
40	FD	2F	B6	5E	C0	76	D9	89	71	D4	66	D8	90	AD	F1	FE
50	08	81	21	EA	5B	AA	A4	43	F0	BC	BE	C4	84	32	E7	22
60	10	AE	A6	31	0B	1D	72	DE	CB	DA	7D	58	75	2E	4C	F9
70	70	98	F2	AC	C1	C2	73	00	8D	09	8A	02	3F	26	95	D0
80	8F	CC	E1	0A	DF	AF	A1	55	E2	9E	CA	60	C7	F5	FF	CE
90	EF	5C	36	88	A8	68	E6	E8	7E	6A	1F	91	47	C8	04	A3
A0	07	8E	34	C9	62	49	97	86	2D	EB	BD	67	41	D1	EE	61
B0	FC	FB	11	6F	77	0D	D5	57	40	BF	59	05	1C	6C	D2	B0
C0	E0	7C	0C	78	14	9C	53	83	19	4B	A2	9F	B4	3E	42	28
D0	9B	9D	74	BA	E5	8B	7F	56	BB	2A	FA	B9	17	3B	13	4F
E0	37	D6	F3	16	C3	79	0E	E4	85	6B	1B	27	CD	A9	AB	93
F0	48	8C	64	D3	F4	46	1E	9A	DD	C5	99	87	25	20	5A	69

Evaltuition	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum	0.1328%	3.9062%	0.92%	94	1.15%	0.5833%	
Minimum	0.0703%	1.5625%	0.78%	110	0.65%	0.4167%	
Avarage	0.1156%	2.7344%	0.82%	98	0.0722%	0.5278%	

**STEP 7**

You can download the analysis results in pdf format by clicking the export pdf button.

# SBOX Analyzer

Which bit do you choose?

8-bit

4-bit

How to use

## STEP 1

If you want to do an 4-bit analysis, you should click the 4-bit button.

SBOX Analysis

Dosya Seç

Dosya seçilmedi

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

+

00

01

02

03

00

10

20

30

Evalatlution	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum							
Minimum							
Avarage							

## STEP 2

If you want to make an analysis consisting of random numbers, you should click on the random generate button.

SBOX Analysis

Dosya Seç

Dosya seçilmedi

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

+

00

01

02

03

00

10

20

30

Evalatlution	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum							
Minimum							
Avarage							

SBOX Analysis

localhost:44393 web sitesinin mesaji

Enter the Sbox as comma separated values.

7,4,14,9,5,11,2,13,0,8,15,1,10,3,12,6

Tamam

İptal

+

00

01

02

03

00

10

20

30

07

05

00

0A

04

0B

08

03

0E

02

0F

0C

09

0D

01

06



## STEP 5

If you have an excel file, you should select your excel file from the select file button and then click the upload excel file button.

SBOX Analysis

Dosya Seç

Dosya seçilmedi

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

+

00	01	02	03
00	04	06	01
10	02	0C	05
20	0A	0D	0B
30	03	0F	09

Evalutauon	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum	0.4375%	0.375%	21.17%	1	1.4226%	0.6667%	
Minimum	0.0625%	0.25%	20.17%	7	0.9226%	0.6%	
Avarage	0.2969%	0.3125%	20.5%	3	0.0218%	0.5556%	

## STEP 6

After clicking one of the random generate, import and upload excel file buttons, you can click the analysis button and see the analysis results.

SBOX Analysis

Dosya Seç

Dosya seçilmedi

Random Generate

Import

Export

Analysis

Export Pdf

Upload Excel File

+

00	01	02	03
00	04	06	01
10	02	0C	05
20	0A	0D	0B
30	03	0F	09

Evalutauon	Linear Probability	Differencial Probability	Nonlinearty Percentage	Nonlinearty	SAC	BIC-SAC	BIC-NL
Maximum	0.4375%	0.375%	21.17%	1	1.4226%	0.6667%	
Minimum	0.0625%	0.25%	20.17%	7	0.9226%	0.6%	
Avarage	0.2969%	0.3125%	20.5%	3	0.0218%	0.5556%	

## STEP 7

You can download the analysis results in pdf format by clicking the export pdf button.



