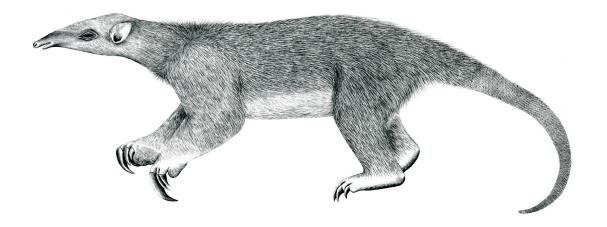
Tranalyzer2

bitForensic



Search packets for specific bits patterns



Tranalyzer Development Team

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1 bitForensic

1.1 Description

The bitForensic plugin enables the user to search the packets for specific uint8_t, uint16_t, uint32_t and uint64_t patterns, combined with user-defined bit masks and nibble swap operations.

1.2 Dependencies

None.

1.2.1 Core Configuration

This plugin requires no special core configuration.

1.3 Configuration Flags

The following flags can be used to control the output of the plugin:

Name	Default	Description	Flags
BF_PLEN	0	0: Pattern search,	
		1: Length	
BF_TOTLEN	0	0: Residual length,	BF_PLEN=1
		1: Total length	
BF_EXLEN	2	Length excluded	BF_PLEN=1
BF_PAT	0x0915	Pattern: 1,2,4,8 bytes, defines BF_PWDTH	
BF_MSK	0xffff	Mask: 1,2,4,8 bytes, defines BF_PWDTH	
BF_NETODR	1	Search pattern network order	
BF_NIBBLESWP	0	Swap nibbles in search pattern (0-1)	
BF_DNUM	10	Max bpdpos flow storage	
BF_SAVE_BCH	0	Extract content: B/D info	
BF_BSHIFT	14	Start byte shift	BF_SAVE_BCH=1
BF_RMDIR	1	Empty BF_V_PATH before starting	BF_SAVE_BCH=1
BF_V_PATH	"/tmp/BF/"	Path for raw content	
BF_FNAME	"bfnudel"	Default content file name prefix	

1.3.1 Environment Variable Configuration Flags

The following configuration flags can also be configured with environment variables (ENVCNTRL>0):

- BF_RMDIR
- BF_V_PATH
- BF_FNAME

1.4 Flow File Output 1 BITFORENSIC

1.4 Flow File Output

The bitForensic plugin outputs the following columns:

Column	Type	Description	Flags
bfStat bfPDPos	H8 R(U16)	Status Pattern Detect Position	

1.4.1 bfStat

The bfStat column is to be interpreted as follows:

bfStat	Description
0x01	Pattern found
0x0 <mark>2</mark>	Length byte, word found
0×04	_
0x0 <mark>8</mark>	Save content
0x10	BF_PWDTN0
$0x^{2}0$	BF_PWDTN1
0x <mark>4</mark> 0	BF_PWDTN2
0x <mark>8</mark> 0	_

1.5 Packet File Output

In packet mode (-s option), the bitForensic plugin outputs the following columns:

Column	Type	Description	Flags
bfStat	Н8	Status	
bfPDPos	R(U16)	Pattern Detect Position	

1.6 Plugin Report Output

The following information is reported:

- Aggregated bfStat
- Number of bit patterns
- Max. number of file handles (BF_SAVE_BCH=1)