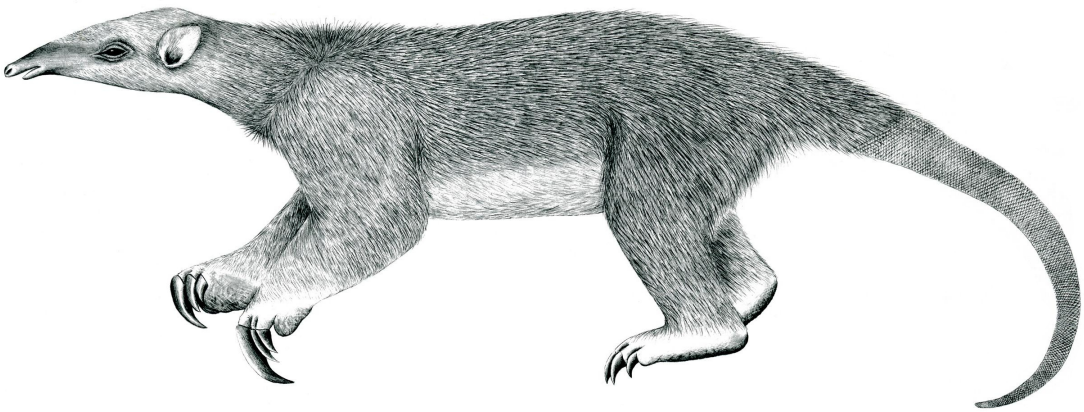
Tranalyzer2

ircDecode

Internet Relay Chat (IRC)



Tranalyzer Development Team

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1 ircDecode

1.1 Description

The ircDecode plugin analyzes IRC traffic. User defined compiler switches are in *ircDecode.h*.

1.2 Configuration Flags

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

Name	Default	Description	Flags
IRC_SAVE	0	Save content to IRC_F_PATH	
IRC_RMDIR	1	Empty IRC_F_PATH before starting	IRC_SAVE=1
IRC_CMD_AGGR	1	Aggregate IRC commands/response codes	
IRC_BITFIELD	0	Bitfield coding of IRC commands	
IRC_UXNMLN	10	maximal username length	
IRC_PXNMLN	10	maximal password length	
IRC_NXNMLN	10	maximal nickname length	
IRC_MXNMLN	50	maximal name length	
IRC_MAXUNM	5	Maximal number of users	
IRC_MAXPNM	5	Maximal number of passwords	
IRC_MAXNNM	5	Maximal number of nicknames	
IRC_MAXCNM	20	Maximal number of parameters	
IRC_F_PATH	"/tmp/IRCFILES/"	Path for extracted content	

1.2.1 Environment Variable Configuration Flags

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

- IRC_RMDIR
- IRC_F_PATH

1.3 Flow File Output

The ircDecode plugin outputs the following columns:

Column	Type	Description	Flags
ircStat	H8	Status	
ircCBF	H64	Commands	IRC_BITFIELD=1
ircCC	RSC	Command codes	
ircRC	RU16	Response codes	
ircNumUser	U8	Number of users	
ircUser	RS	Users	
ircNumPass	U8	Number of passwords	
ircPass	RS	Passwords	
ircNumNick	U8	Number of nicknames	

Column	Type	Description	Flags
ircNick	RS	Nicknames	
ircNumC	U8	Number of parameters	
ircC	RS	Content	

1.3.1 ircStat

The `ircStat` column is to be interpreted as follows:

	ircStat	Description
2^0	(=0x01)	IRC port found
2^1	(=0x02)	IRC registration successful
2^2	(=0x04)	IRC password incorrect
2^3	(=0x08)	—
2^4	(=0x10)	Unrecognized IRC command
2^5	(=0x20)	File error (`IRC_SAVE=1`
2^6	(=0x40)	Array string or filename overflow
2^7	(=0x80)	Invalid format or parsing error

1.3.2 ircCBF

The `ircCBF` column is to be interpreted as follows:

	ircCBF	Description
2^{0}	(=0x0000.0000.0000.0001)	ADMIN
2^{1}	(=0x0000.0000.0000.0002)	AWAY
2^{2}	(=0x0000.0000.0000.0004)	CAP
2^{3}	(=0x0000.0000.0000.0008)	CNOTICE
2^{4}	(=0x0000.0000.0000.0010)	CONNECT
2^{5}	(=0x0000.0000.0000.0020)	CPRIVMSG
2^{6}	(=0x0000.0000.0000.0040)	DIE
2^{7}	(=0x0000.0000.0000.0080)	ENCAP
2^{8}	(=0x0000.0000.0000.0100)	ERROR
2^{9}	(=0x0000.0000.0000.0200)	HELP
2^{10}	(=0x0000.0000.0000.0400)	INFO
2^{11}	(=0x0000.0000.0000.0800)	INVITE
2^{12}	(=0x0000.0000.0000.1000)	ISON
2^{13}	(=0x0000.0000.0000.2000)	JOIN
2^{14}	(=0x0000.0000.0000.4000)	KICK
2^{15}	(=0x0000.0000.0000.8000)	KILL
2^{16}	(=0x0000.0000.0001.0000)	KNOCK
2^{17}	(=0x0000.0000.0002.0000)	LINKS
2^{18}	(=0x0000.0000.0004.0000)	LIST
2^{19}	(=0x0000.0000.0008.0000)	LUSERS
2^{20}	(=0x0000.0000.0010.0000)	MODE
2^{21}	(=0x0000.0000.0020.0000)	MOTD
2^{22}	(=0x0000.0000.0040.0000)	NAMES
2^{23}	(=0x0000.0000.0080.0000)	NAMESX
2^{24}	(=0x0000.0000.0100.0000)	NICK
2^{25}	(=0x0000.0000.0200.0000)	NJOIN
2^{26}	(=0x0000.0000.0400.0000)	NOTICE
2^{27}	(=0x0000.0000.0800.0000)	OPER
2^{28}	(=0x0000.0000.1000.0000)	PART
2^{29}	(=0x0000.0000.2000.0000)	PASS
2^{30}	(=0x0000.0000.4000.0000)	PING
2^{31}	(=0x0000.0000.8000.0000)	PONG

	ircCBF	Description
2^{32}	(=0x0000.0001.0000.0000)	PRIVMSG
2^{33}	(=0x0000.0002.0000.0000)	QUIT
2^{34}	(=0x0000.0004.0000.0000)	REHASH
2^{35}	(=0x0000.0008.0000.0000)	RESTART
2^{36}	(=0x0000.0010.0000.0000)	RULES
2^{37}	(=0x0000.0020.0000.0000)	SERVER
2^{38}	(=0x0000.0040.0000.0000)	SERVICE
2^{39}	(=0x0000.0080.0000.0000)	SERVLIST
2^{40}	(=0x0000.0100.0000.0000)	SETNAME
2^{41}	(=0x0000.0200.0000.0000)	SILENCE
2^{42}	(=0x0000.0400.0000.0000)	SQUERY
2^{43}	(=0x0000.0800.0000.0000)	SQUIT
2^{44}	(=0x0000.1000.0000.0000)	STATS
2^{45}	(=0x0000.2000.0000.0000)	SUMMON
2^{46}	(=0x0000.4000.0000.0000)	TIME
2^{47}	(=0x0000.8000.0000.0000)	TOPIC
2^{48}	(=0x0001.0000.0000.0000)	TRACE
2^{49}	(=0x0002.0000.0000.0000)	UHNAMES
2^{50}	(=0x0004.0000.0000.0000)	USER
2^{51}	(=0x0008.0000.0000.0000)	USERHOST
2^{52}	(=0x0010.0000.0000.0000)	USERIP
2^{53}	(=0x0020.0000.0000.0000)	USERS
2^{54}	(=0x0040.0000.0000.0000)	VERSION
2^{55}	(=0x0080.0000.0000.0000)	WALLOPS
2^{56}	(=0x0100.0000.0000.0000)	WATCH
2^{57}	(=0x0200.0000.0000.0000)	WHO
2^{58}	(=0x0400.0000.0000.0000)	WHOIS
2^{59}	(=0x0800.0000.0000.0000)	WHOWAS
2^{60}	(=0x1000.0000.0000.0000)	-
2^{61}	(=0x2000.0000.0000.0000)	-
2^{62}	(=0x4000.0000.0000.0000)	-
2^{63}	(=0x8000.0000.0000.0000)	Not supported

1.4 Plugin Report Output

The following information is reported:

- Aggregated `ircStat`

- Number of IRC packets