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# Tranalyzer2

bayesClassifier



bayesClassifier

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Tranalyzer Development Team

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## 1 bayesClassifier

### 1.1 Description

The bayesClassifier plugin classifies flows based on different models and different source plugins.

### 1.2 Dependencies

#### 1.2.1 External Libraries

This plugin depends on the **jansson** library.

<b>Ubuntu:</b>	sudo apt-get install	libjansson-dev
<b>Arch:</b>	sudo pacman -S	jansson
<b>Gentoo:</b>	sudo emerge	jansson
<b>openSUSE:</b>	sudo zypper install	libjansson
<b>Red Hat/Fedora<sup>1</sup>:</b>	sudo dnf install	jansson
<b>macOS<sup>2</sup>:</b>	brew install	jansson

#### 1.2.2 Other Plugins

This plugin requires the `nFrstPkts` plugin.

#### 1.2.3 Required Files

The file `bayes_config.json` is required.

### 1.3 Configuration Flags

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

Name	Default	Description
BAYES_CFG	"bayes_config.cfg"	Name of the Bayes config file
BAYES_UNKNOWN	"unknown"	Default class name
BAYES_MIN_POST_PROB	0.0001	Minimum post-probability
BAYES_MIN_NUM_PKT	1	Minimum amount of packets per flow

### 1.4 Flow File Output

The bayesClassifier plugin outputs the following columns:

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<sup>1</sup>If the `dnf` command could not be found, try with `yum` instead

<sup>2</sup>Brew is a packet manager for macOS that can be found here: <https://brew.sh>

Column	Type	Description	Flags
bayesClass	SC	Naive Bayes Class Name	

## 1.5 Known Bugs and Limitations

Currently the naivebayes library only supports discrete input features.