JFXMultiYZoomLineChart

V1.x

Quick Installation Guide
User Guide

REF : JFXMultiYZoomLineChart/JLP/2018/04

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Description of Successive Versions

VERSION	DATES	State	Author
V1.0	31/April/2018	Initialisation Version	JL PASTUREL

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Advertisement :
English is not my native language, so in the document, you will find a lot of syntax and grammar mistakes, awkwardness, difficulties to understand some sentences …
Please let me know at _jean-louis.pasturel-wrong-reply@orange.fr_
(Remove -wrong-reply to the mail address)

1 Introduction

This is a tool to chart, using Java Oracle JSE 9+ and Java JFX Oracle 9+.
Do not tested with the Open JDK and Open JFX.

1.1 Context

Below the contraints and limitations of this tool :
    - This tool can only graph series as JFX **LineChart** class.
    - The files mut be csv files.
    - The X axis is a time as **Long** Java Class
    - The Y axis values are **Double** Java Class
    - The first line must be the title, and and must have (for example wit 2 Value) the following form :
    DateTime;**Pivots**;Value1(hit/s);Value2(ms);

    The first column is a **DateTime** (The title must contains **Date** or/And **Time** in the name). The format of the date must be handled by regex and Java DateFormat described in file **./config/logFouineurDates.properties.** If the format is not reconized, it must be added into yjis file (Be care to do a backup of this file before modifying it, it is a bit tricky).
    The second column **Pivots**, is optionnal, and is useful to sort the values (Exemple different kind of URL after parsing an http access log file).
    The others column are **Values,** between parenthesis, you indicate the unit of the value. If absent a default "unit" is attributed.

    The tool allows to have several Y-Axis.

2 Installation

2.1 Packaging

Le packaging is done in a form of zip file **JFXMultiYZoomLineChart.zip** which the root is **JFXMultiYZoomLineChart .**

2.2 Installation of   JFXMultiYZoomLineChart

2.2.1 Requirements

An **Oracle JDK /Java FX 9.0+** must be installed on your desktop. (not tested with OpenJDK and OpenJFX)

2.2.2 Create a deployment directory

For all the document, we suppose that you use a Windows System (there is no difficulty to adapt for a Linux box) and that the installation directory is **c:\opt** .
It **is not mandatory** to create a directory **JFXMultiYZoomLineChart**.

2.2.3 De-compaction

After having downloaded **JFXMultiYZoomLineChar**t**.zip**   in **c:\opt** le de-compact-it in this directory.

2.2.4 Configuration

The configuration is set in the start script of **LogFouineur** (it may be change with new version, but the principle will be conserved) :
File **c:\opt\JFXMultiYZoomLineChart\scripts\launch.cmd**

```
set JAVA_HOME=C:\Program Files\Java\jdk-9.0.4
set root=C:\opt\JFXMultiYZoomLineChart
set workspace=C:\opt\workspaceLP
"%JAVA_HOME%\bin\java" -Xms1024M -Xmx1024M -Droot=%root% -Dworkspace=%workspace%
--module-path %root%\libs -m
org.jlp.javafx/org.jlp.javafx.example.CSVChartViewerMain
```

At the beginning of the file (in bold characters), 3 environment variables must be set, according to your installation.
The Window Environment Variable PATH has to make reachable the executable **java** of the JVM.
Important : The **manual creation** of the directory pointed by **%workspace%** is **mandatory.**
We can after create a link **Windows** on the desktop to launch **JFXMultiYZoomLineChart** by left click on the mouse**.**

3 User Guide

After launching the script launch.cmd (or launch.ksh) . The screen belows appears:
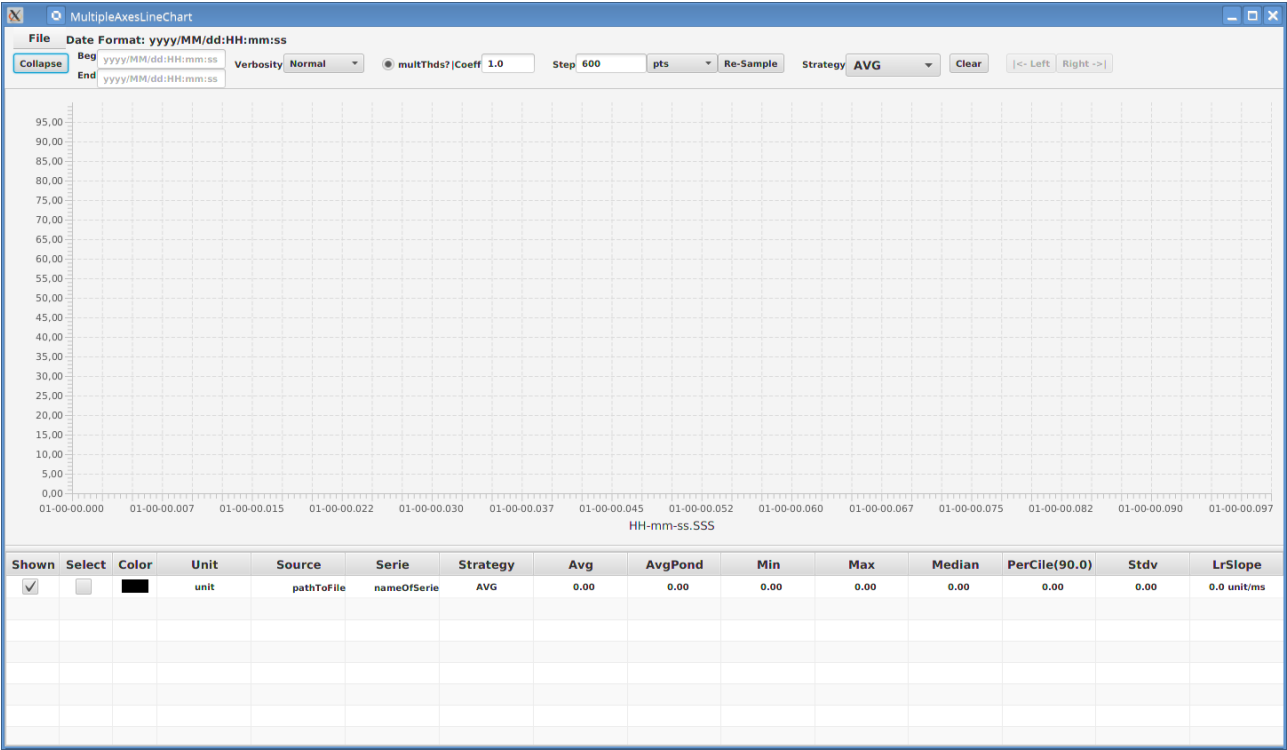
The menu **File** opens a FileChooser, you can browse to select the csv files. You can select multiple files in the same directory.
If you don't know the date of beginning and end of the value series, select a step to **10** and a unit of **s**. Afterwards you wil can modify the sampling.

After choosing a file, in the csv directory the chart is shown as below :

Shown	Select	Color	Unit	Source	Serie	Strategy	Avg	AvgPond	Min	Max	Median	PerCile(90.0)	Stdv	LrSlope
✓		black	s	...19145418/fl_AllAvg.csv	...9ch_durationbis_Avg-0	avg	1.24	1.23	0.00	12.66	1.17	1.69	0.44	-209,61 s/M
✓		red	s	...19145418/fl_AllAvg.csv	...9es_durationbis_Avg-0	avg	1.20	1.19	0.00	17.19	1.12	1.63	0.38	-176,25 s/M
✓		green	s	...19145418/fl_AllAvg.csv	...9be_durationbis_Avg-0	avg	5.04	5.01	0.00	30.04	4.98	6.82	1.49	1,10E+03 s/M
✓		blue	s	...19145418/fl_AllAvg.csv	...obal_durationbis_Avg-0	avg	1.65	1.65	0.00	16.81	1.58	2.14	0.48	-162,79 s/M
✓		magenta	s	...19145418/fl_AllAvg.csv	...69pl_durationbis_Avg-0	avg	1.74	1.73	0.00	13.81	1.66	2.29	0.53	-217,34 s/M

From your System File Explorer, you can also add csv file by DnD from the same or another directory.

The graph must be zoomed by selecting a region
. It can be de-zoomed by dragging a thin rectangle (with no height)

Shown	Select	Color	Unit	Source	Serie	Strategy	Avg	AvgPond	Min	Max	Median	PerCile(90.0)	Stdv	LrSlope
✓		black	s	...19145418/fl_AllAvg.csv	...9ch_durationbis_Avg-0	avg	1.24	1.23	0.00	12.66	1.17	1.69	0.44	-209,61 s/M
✓		red	s	...19145418/fl_AllAvg.csv	...9es_durationbis_Avg-0	avg	1.20	1.19	0.00	17.19	1.12	1.63	0.38	-176,25 s/M
✓		green	s	...19145418/fl_AllAvg.csv	...9be_durationbis_Avg-0	avg	5.04	5.01	0.00	30.04	4.98	6.82	1.49	1,10E+03 s/M
✓		blue	s	...19145418/fl_AllAvg.csv	...obal_durationbis_Avg-0	avg	1.65	1.65	0.00	16.81	1.58	2.14	0.48	-162,79 s/M
✓		magenta	s	...19145418/fl_AllAvg.csv	...69pl_durationbis_Avg-0	avg	1.74	1.73	0.00	13.81	1.66	2.29	0.53	-217,34 s/M

Clicking right on the title of the table allows to add/remove columns.
Clicking right in the contains of the table allows remove selected row series on the table and on the graph.

Buttons on the top :
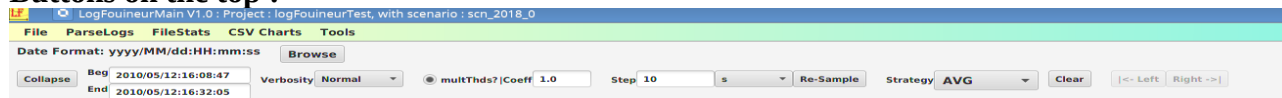
Collapse/Expand :
Show/hide the table and the graph.
Labels Beg / End :
Shows the time interval of the chart.
Verbosity
To configure the verbosity of the dynamic popup.(Normal, Verbose, Silent)
Radio Button MultiThreads / MonoThread
Parallelism

Step
If pts is chosen in the combobox, indicate the number of points desired for the chart. If a time unit is chosen, indicate the value of the interval according to the chosen unit.
Combo Box unit
see just above.
Sample :
When you change the unit and or the value of step, redraw the charts according to the new choise.

Strategy :
The strategy to aggregate the value, when there are several values in the step defined above.
Clear :
Cleans all CSV file from the Chart and the table

|<-Left :

allows, when 2 or more series are "marked" in the table (column "select"), to align these series to the left side of the chart by shifting the beginning of all series to the minimum of the beginning of the marked series.

Right ->|:

allows, when 2 or more series are "marked" in the table (column "select"), to align these series to the right side of the chart by shifting the beginning of all series to the maximum of the beginning of the marked series.
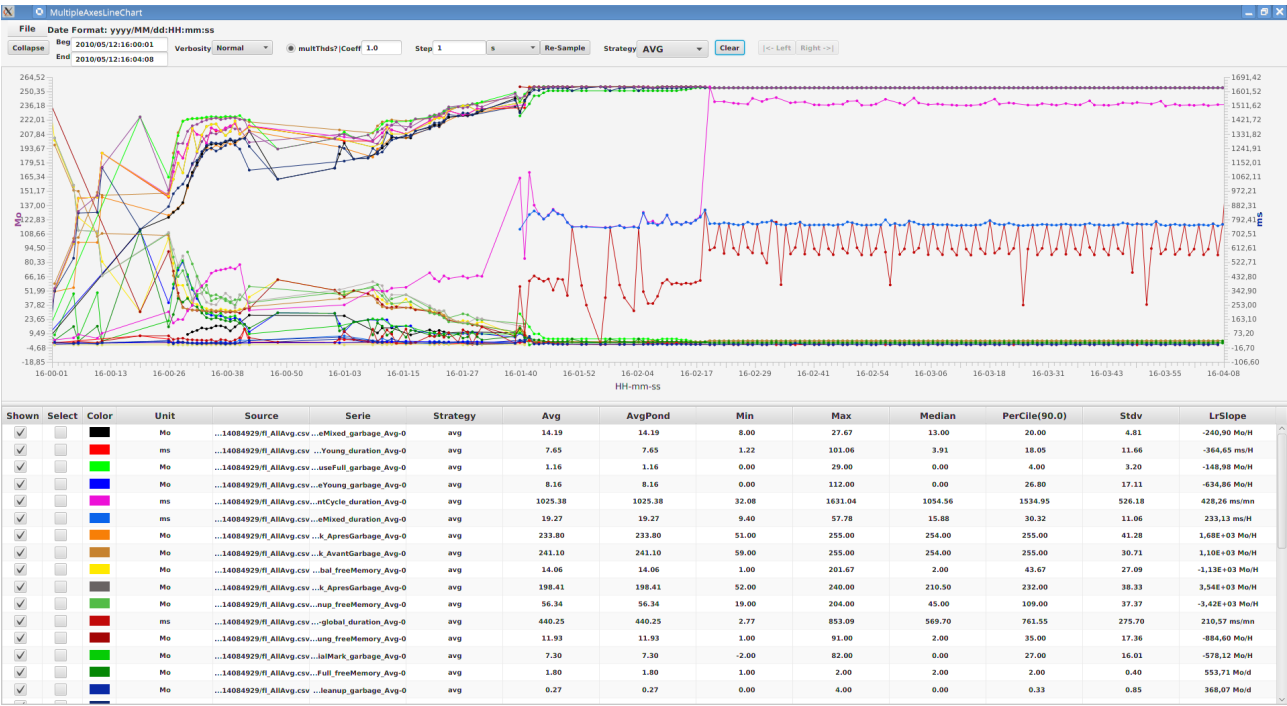
Zooming on a part of the chart (clicking left and drag) :