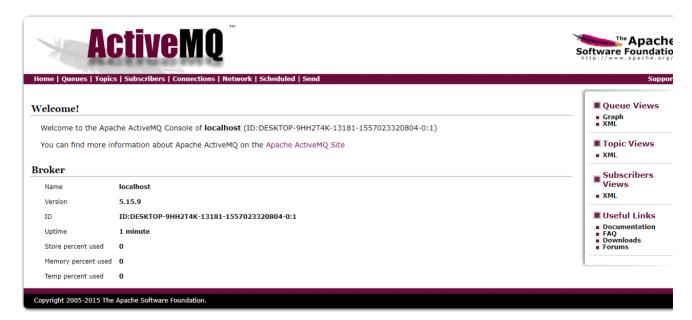
# 分布式随机信号分析系统设计说明

## 1.首先开启ActiveMQ

找到 bin/win64/wrapper.exe 双击运行

```
ActiveMQ
            INFO
                   Connector amop started
jvm 1
ivm 1
            INFO
                   Listening for connections at: stomp://DESKTOP-9HH2T4K:61613?maximumConnections=1000&wireFormat.maxFr
meSize=104857600
            INFO
INFO
jvm 1
jvm 1
                   Connector stomp started Listening for connections at: mqtt://DESKTOP-9HH2T4K:1883?maximumConnections=1000&wireFormat.maxFrame
Size=104857600
jvm 1
jvm 1
            INFO
                   Connector matt started
                   Connector matt started
Starting Jetty server
Creating Jetty connector
Creating Jetty connector
ServletContext@o.e.j.s.ServletContextHandler@7b0e50b9{/,null,STARTING} has uncovered http methods for
vm 1
vm 1
            INFO | Listening for connections at ws://DESKTOP-9HH2T4K:61614?maximumConnections=1000&wireFormat.maxFrameSi
jvm 1 |
ze=104857600
νm
                   jolokia-agent: Using policy access restrictor classpath:/jolokia-access.xml
```

打开网站确认http://127.0.0.1:8161/admin/



#### 2.编译文件

javac \*.java

C:\Users\王\Desktop\第3次作业>javac \*.java 注:某些输入文件使用或覆盖了已过时的 API。 注:有关详细信息,请使用 -Xlint:deprecation 重新编译。 注:某些输入文件使用了未经检查或不安全的操作。 注:有关详细信息,请使用 -Xlint:unchecked 重新编译。

C:\Users\王\Desktop\第3次作业>

## 3.运行程序

• 在cmd窗口1输入 java Publisher

C:\Users\王\Desktop\第3次作业>java Publisher please input a, b as parameters of the Gaussian

● 在cmd窗口2输入 java ASyncConsumer\_average

C:\Users\王\Desktop\第3次作业>java ASyncConsumer\_average Press any key to exit.

• 在cmd窗口3输入 java ASyncConsumer var 再输入过去N次的信号

C:\Users\王\Desktop\第3次作业>java ASyncConsumer\_var Press the N : 100 Press any key to exit.

● 在cmd窗口4输入 java ASyncConsumer err

C:\Users\王\Desktop\第3次作业>java ASyncConsumer\_err Press any key to exit.

• 在Publisher 窗口中键入产生随机信号的均值为a, 方差为b的随机信号

C:\Users\王\Desktop\第3次作业>java Publisher please input a, b as parameters of the Gaussian 20 2

• 可以看到其他窗口同时滚动显示各自模块的信息

```
current var: 2.20621116852511586093
current var: 2.23989629763874643631
current var: 2.2555558140820180216
current var: 2.17089942558709706503
current var: 2.16963694559751919395
current var: 2.18834265386603471708
current var: 2.188352043850208870123
current var: 2.188276298137345614601
current var: 2.18189416117066561203
current var: 2.1917933030972241952
current var: 2.17278716560477111011
current var: 2.16469067816878519942
current var: 2.134013906476139339914
current var: 2.33523961949546491458
current var: 2.33523961949546491458
current var: 2.33523961949546491458
current var: 2.3063619379287347186
current var: 2.30591826151261999609
current var: 2.38441645185281472404
           osoft Windows [版本 10.0.1713<u>4</u>
  c) 2018 Microsoft Corporation。保留所有权利。
  :\Users\王\Desktop\第3次作业>javac *.java
E: 某些输入文件使用或覆盖了已过时的 API。
E: 有关详细信息,请使用 -Xlint:deprecation 重新编译。
E: 某些输入文件使用了未经检查或不安全的操作。
E: 有关详细信息,请使用 -Xlint:unchecked 重新编译。
 Z:\Users\王\Desktop\第3次作业>java Publisher
blease input a, b as parameters of the Gaussian
  :\Users\王\Desktop\第3次作业>java Publisher
 please input a, b as parameters of the Gaussian
 C:\Windows\System32\cmd.exe - java ASyncConsumer average
                                                                                                                                                                           C:\Windows\System32\cmd.exe - java ASyncConsumer_err
current num: 5399 average: 20.01257366694465
current num: 5400 average: 20.01226446913886
current num: 5401 average: 20.01192633099186
current num: 5402 average: 20.011914345883756
current num: 5403 average: 20.012239536411094
current num: 5404 average: 20.01229464131597
current num: 5405 average: 20.012711382344886
current num: 5406 average: 20.012631118473273
current num: 5407 average: 20.012590851883925
current num: 5408 average: 20.012561944357394
current num: 5409 average: 20.012444673091295
current num: 5410 average: 20.013228627425395
                                                                                                                                                                         current_num: 5398 err_num:
                                                                                                                                                                         current_num: 5399 err_num:
                                                                                                                                                                                                                                                     18
                                                                                                                                                                         current_num: 5400 err_num:
                                                                                                                                                                                                             5401 err_num: 5402 err_num:
                                                                                                                                                                         current_num:
                                                                                                                                                                         current num:
                                                                                                                                                                                                                                                     18
                                                                                                                                                                                                             5403 err_num:
                                                                                                                                                                                                                                                     18
                                                                                                                                                                         current_num:
                                                                                                                                                                                                                                                     18
                                                                                                                                                                                                             5404 err_num:
                                                                                                                                                                         current_num:
                                                                                                                                                                         current_num: 5405 err_num:
                                                                                                                                                                                                                                                     18
                                                                                                                                                                         current_num:
                                                                                                                                                                                                              5406 err_num:
                                                                                                                                                                         current_num: 5407 err_num:
                                                                                                                                                                         current_num: 5408 err_num:
current_num: 5409 err_num:
                                                                                                                                                                                                                                                     18
current num: 5410 average: 20.013005629998116
current num: 5411 average: 20.013228627425395
current num: 5412 average: 20.013221781075227
current num: 5413 average: 20.01353285492801
current num: 5414 average: 20.013782898535734
current num: 5415 average: 20.012934594590856
current num: 5416 average: 20.013073505204517
current num: 5417 average: 20.013300088749858
current num: 5418 average: 20.013340634965967
current num: 5419 average: 20.013656080469843
                                                                                                                                                                         current_num: 5410 err_num:
                                                                                                                                                                                                                                                     18
                                                                                                                                                                         current_num: 5411 err_num:
                                                                                                                                                                                                                                                     18
                                                                                                                                                                        current num: 5411 err_num:
current_num: 5412 err_num:
current_num: 5413 err_num:
current_num: 5414 err_num:
                                                                                                                                                                         current_num: 5415 err_num:
current_num: 5416 err_num:
                                                                                                                                                                                                                                                     19
                                                                                                                                                                                                                                                     19
                                                                                                                                                                         current_num: 5417 err_num:
                                                                                                                                                                                                                                                     19
                                                                                                                                                                         current_num:
                                                                                                                                                                                                             5418 err_num:
                                                                                                                                                                                                                                                     19
                                                                                                                                                                                                              5419 err_num:
                                                                                                                                                                         current_num:
  urrent num: 5419 average: 20.013656080469843
                                                                                                                                                                                                             5420 err_num:
                                                                                                                                                                         current_num:
```

### 5.说明

运行程序时尽量保证和上述顺序一致。