

概述

每解决一次复杂问题，个人能力就会得到一次提升。所以，不要惧怕问题，要拥抱问题，积极面对。

个人认为一次较为复杂问题的解决需要以下要素：

全面搜集错误信息 + 仔细研究错误信息 + 足够的技术储备（越是复杂的问题越考验综合技术能力） + 良好的逻辑思维和系统思维能力。最后，你要冷静！

分析过程

inception报警信息

从2018-12-27中午开始，持续收到inception的报警。

TM报警：应用中心线上环境



tonggao@baidu.com <tonggao@baidu.com>

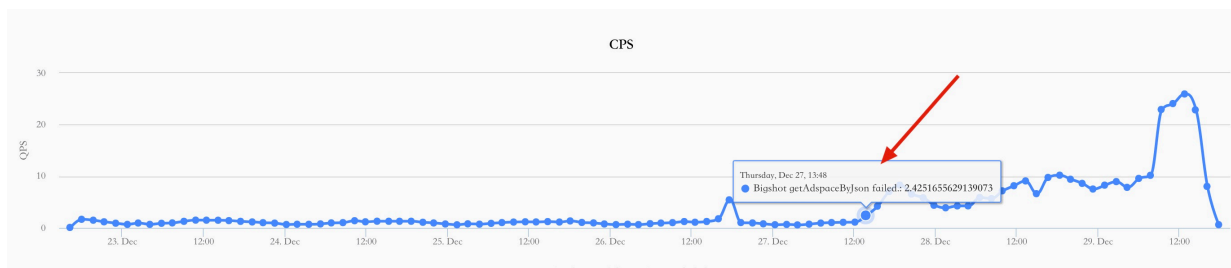
王天煜 (wangtianyu01) -爱奇艺影业; 王宁 (wangning05) -爱奇艺影业; 王君 (wangjun04) -爱奇艺影业; 王罗力; 其他 +5 项

2018年12月29日 星期六 09:54

[显示详细信息](#)

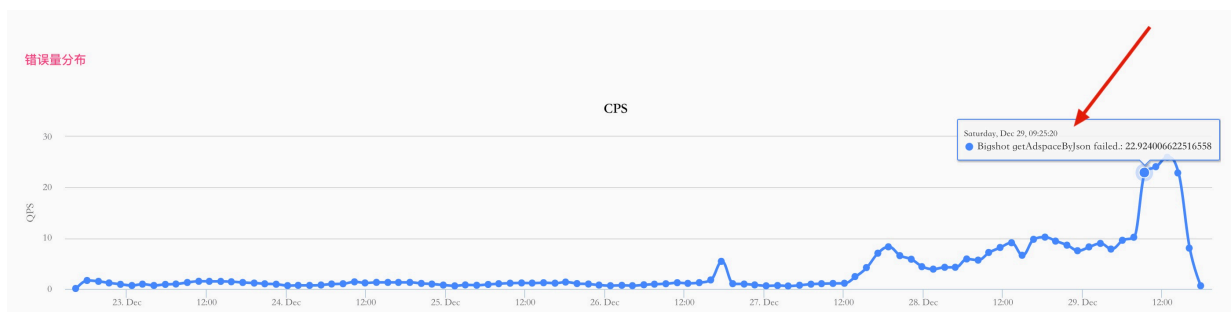
TM报警[InceptionOnline],发生次数 1920, 报警内容: Bigshot getAdspaceByJson failed.

TM上的inception错误曲线如下：



可以看到确切时间应该在13:40分左右。

另一个时间挂点是2018-12-29 09:30左右。



bigshot报警信息

这个时候开始报bigshot cpu使用率过高的报警。

TM报警：Bigshot线上环境



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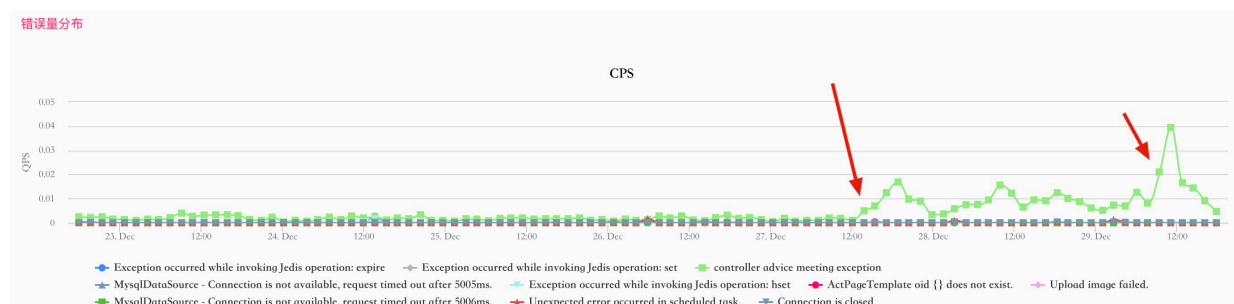
2018年12月29日 星期六 09:54

[显示详细信息](#)

TM报警[BigShotOnline],发生次数 2, 报警内容: 实例CPU使用率大于240%

其实之前一直没有引起足够的重视，到了29号错误量倍增，并伴随着bigshot的使用率过高的报警，大家才更加重视这个异常，并下决心解决它。

下面再看下bigshot的错误曲线。



对比inception和bigshot的错误曲线，我们可以得到两点信息：

1. 两者的趋势是吻合的。
2. 但是，错误QPS完全不是一个量级。这里是否有个疑问：为啥错误QPS不在一个量级？后面回答

分析inception的异常（异常样例见附录二）

很明显，就是request timeout（200ms）。

分析bigshot的异常（异常样例见附录三）

1. 从其错误提示可以看出，是其往已经关闭的socket里写数据导致抛出异常：`java.io.IOException: Connection reset by peer`。
2. 通过其中的一段日志

```
2018-12-29 17:10:12.561 INFO -
com.baidu.movie.user.bigshot.service.aop.OperationRecordAspect - Path:
/api/tms/newBatchGet, Params:
[{"ids":"18,86,46,77,63,64","cityId":338,"cinemaId":null,"movieId":null,
"force":null,"experimentIds":"","userId":null,"displayInfos":null,"c
hannel":"map","client":"webapp","module":null,"logId":1546074611103}],
Time: 21 ms
```

可以看出，controller方法的处理时间为21ms。

3. controller处理完成之后，立马出现了异常。

```
2018-12-29 17:10:12.561 INFO -
com.baidu.movie.user.bigshot.service.aop.OperationRecordAspect - Path:
/api/tms/newBatchGet, Params:
[{"ids":"18,86,46,77,63,64","cityId":338,"cinemaId":null,"movieId":null,
"force":null,"experimentIds":"","userId":null,"displayInfos":null,"c
hannel":"map","client":"webapp","module":null,"logId":1546074611103}],
Time: 21 ms

2018-12-29 17:10:12.566 ERROR -
com.baidu.movie.user.bigshot.web.aop.BigShotControllerAdvice -
controller advice meeting exception
```

分析bigshot为啥出现CPU使用率过高的报警

1. 通过jpaas平台进入容器内，通过 `top` 命令观察一会儿，可以发现，就是我们app的java进程会占用过高的CPU。
2. 通过 `top -Hp 260` (260是PID)，观察进程内最消耗CPU的线程信息，观察一会儿之后可以发现，有一个线程频繁出现CPU使用率达到将近100%。记下线程id。
3. 将线程id转成16进制。（为后续jstack命令准备，比如293>0x125）
4. 使用 `jstack -l 260 | grep '0x113'`，得到线程信息。

```
[work@57210007 ~]$ jstack -l 260 | grep '0x125'

"Concurrent Mark-Sweep GC Thread" os_prio=0 tid=0x00007f400012c000
nid=0x125 runnable
```

可以发现该线程正是GC线程。

到此，基本可以确定JVM发生了频繁的Full GC。而触发Full GC最常见的场景就是大对象进入老年代导致老年代内存被占用太多，但是每次Full GC回收效果又很有限。

heap dump过程

为了确认是否有大对象存在，我们决定对线上jvm进行heap dump以进行分析。

heapdump第1步：在jpaas上发出heap dump命令

big-shot_1-0-20-1 (jpaas-nuomi03)

物理机			Container				内存使用	硬盘使用	cpu使用	运行状态	运行时间	操作
实例 index	机器名 & ip	port	port k:v	ssh id	状态	java dump						
7	nj02-orp-app1066.nj02 10.205.179.11	12003	tomcat_http:7080	57210007.bcc86891-b1f5-41d6-9160-c0eefd9928fc.jpaauid	RUNNING	thread heap	3612.13671875 MB	4.84 %	0.00%	RUNNING	2018/12/28 下午 3:05:47	重启
22	nj02-orp-app0932.nj02 10.207.135.30	12023	tomcat_http:7080	57210022.bcc86891-b1f5-41d6-9160-c0eefd9928fc.jpaauid	RUNNING	thread heap	3607.125 MB	1.89 %	70.00 %	RUNNING	2018/12/28 上午 11:06:35	重启
21	nj02-jpaas-nuomi03- 10.200.110.2	154	tomcat_http:	57210021.bcc86891-b1f5-41d6-9160-	RUNNING	thread	3620.5117187	4.81	0.00%	RUNNING	2018/12/28	重启

实例信息
查看

dump文件会存放到 /home/work/bin 目录下。

heapdump第2步：将dump文件从jpass容器拷贝到百度内网的开发机

```
scp heapdump_1546071701221 work@nj02-nuomi-ensl-map6.nj02:/home/work
```

heapdump第3步：将dump文件从百度内网的开发机拷贝到本机

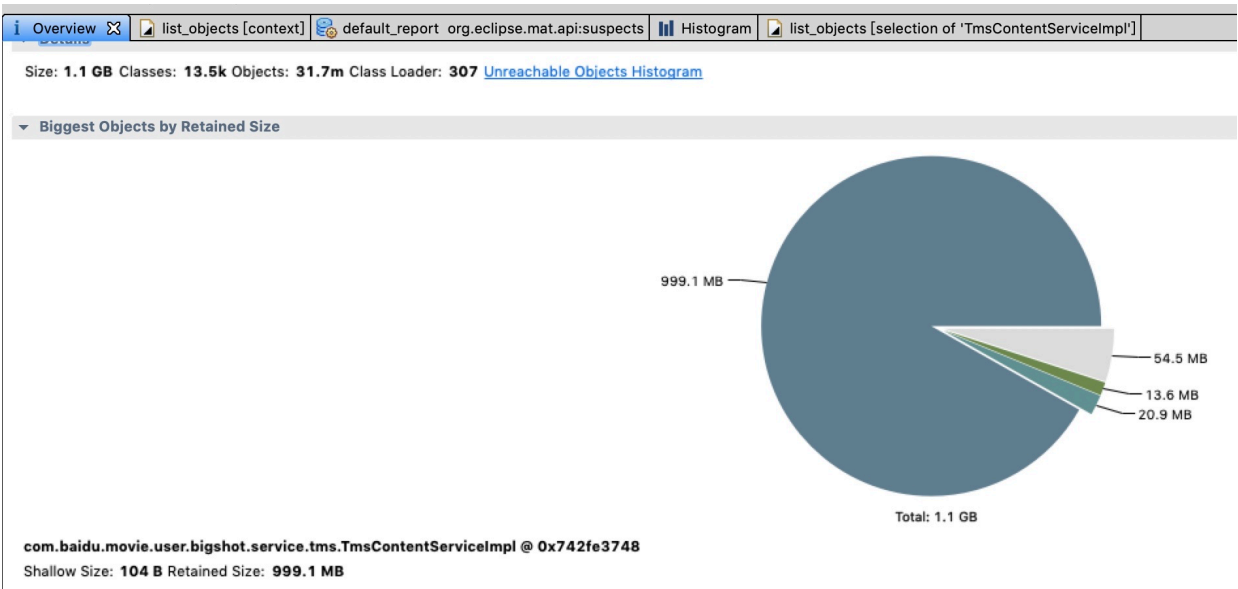
首先，通过sz行不通，文件太大，sz不行。（我在mac上尝试了不行，同事李建极在windows先尝试了也不行）。

最后，我利用了一个讨巧的方法进行文件的拷贝，即利用该开发机上安装的nginx，将dump文件拷贝到nginx的html目录下，然后通过浏览器访问文件地址，下载之。

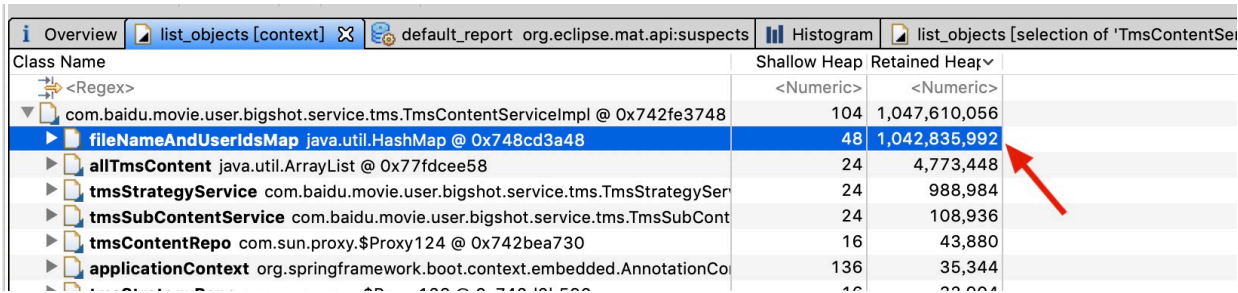
使用MAT对dump文件进行分析

在安装和使用MAT的过程中，也遇到了两个问题，请参见附录一。

打开dump文件之后，问题非常明显。



点进去查看具体的内存占用。



Class Name	Shallow Heap	Retained Heap
<Regex>	<Numeric>	<Numeric>
com.baidu.movie.user.bigshot.service.tms.TmsContentServiceImpl @ 0x742fe3748	104	1,047,610,056
fileNameAndUserIdsMap java.util.HashMap @ 0x748cd3a48	48	1,042,835,992
allTmsContent java.util.ArrayList @ 0x77fdcee58	24	4,773,448
tmsStrategyService com.baidu.movie.user.bigshot.service.tms.TmsStrategySer	24	988,984
tmsSubContentService com.baidu.movie.user.bigshot.service.tms.TmsSubCont	24	108,936
tmsContentRepo com.sun.proxy.\$Proxy124 @ 0x742bea730	16	43,880
applicationContext org.springframework.boot.context.embedded.AnnotationCo	136	35,344

到这里就定位到了代码逻辑。

顺着代码逻辑一通看，通过查看数据库的记录，发现是运营最近两天操作了运营位。然后找运营确认操作步骤，最终定位到问题触发逻辑。

这里简单描述下业务逻辑：

运营位是可以定向展示的，具体向哪些用户展示，是运营通过一个文件上传到服务器上的，该文件会存放在nfs上，所有的bigshot实例均可看到，然后bigshot定时读取该文件进行转换之后存储到内存里（即fileNameAndUserIdsMap）。

也就是说，运营位越多，文件越大，则该map占用的内存越大。

解决方法

首先，这里之前的实现逻辑肯定是有问题的。长远来看，是要重构的。

其次，是如何快速解决该问题。大家讨论之后，基本给出了以下方案：

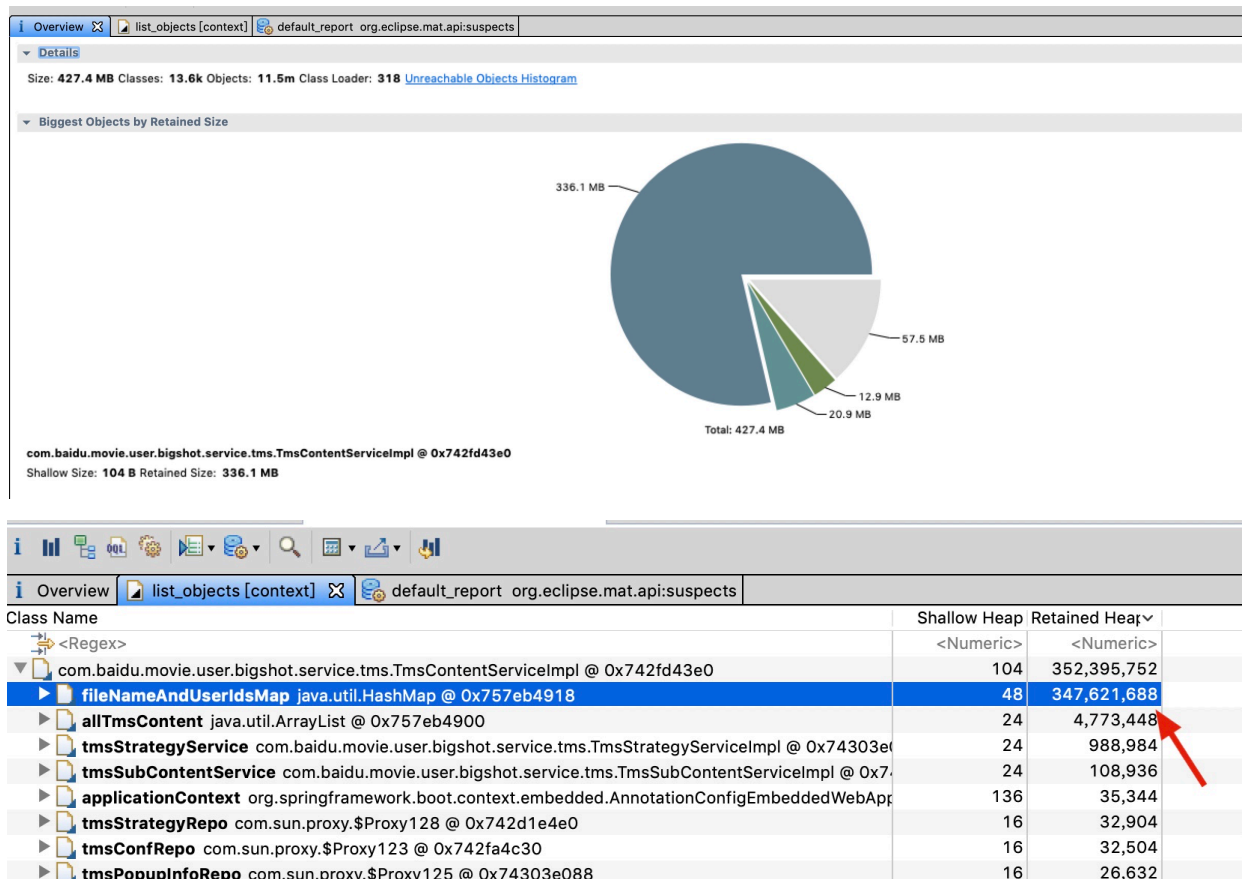
- 1. 增大实例的内存配置，同时调整jvm的启动参数。
- 2. 看业务上是否有可以调整的空间。

对于方案1，肯定要做发布，发布之后的效果也不好确定。所以，重点考察了方案2。

再次仔细梳理代码逻辑，发现其程序会将所有非删除状态的运营位均加载到内存。但是页面上真正展示的只是处于进行中的运营位。所以，我将所有影响内存大小的运营位信息导出找运营一一确认，最终将一些处于暂停状态的运营位进行编辑，使其上传空文件。做完这个操作之后，错误便大幅降低，不再报警。

从业务上梳理临时解决方案，感谢王君的提醒。

再次进行heap dump，确认解决方案的效果。



前后对比，fileNameAndUserIdsMap降低了700M。

这里回答下上面提到的问题：为啥错误QPS不在一个量级？

在bigshot发生Full GC期间的请求会直接timeout，而不会进入bigshot的业务逻辑。之后在Full GC即将结束的时候发生的请求才有可能进入业务逻辑，并且正好在请求返回之前timeout，导致出现bigshot的错误。所以，概率很低。

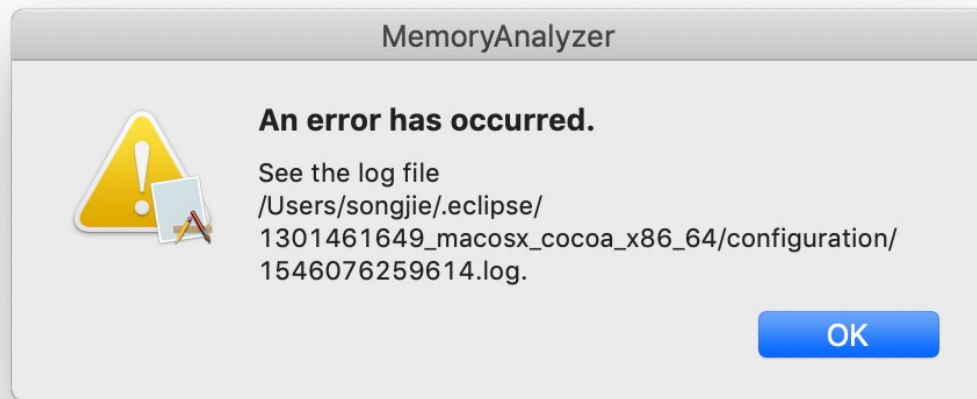
副产品

1. 如果你需要从百度内网拷贝大文件到本机，可以参考文章中的方案。
2. 如果你本机使用MAT遇到问题，本文章附录一可能能够提供一些参考。
3. 对jvm CPU使用率过高问题的分析基本就是这个套路，理解原理，记录关键命令便可。还有就是手不能太生。

附录一：安装MAT可能遇到的错误（MAC为例）。

问题1：官网下载下来的程序，双击打开出错。

现象：



分析： eclipse的一个bug。

解决：

右键mat显示包内容，进入Contents->MacOS下面，会有一个MemoryAnalyzer的命令。

打开终端，进入此路径找到MemoryAnalyzer，运行

```
./MemoryAnalyzer -data ./dump
```

参考：<https://blog.csdn.net/mahl1990/article/details/79298616>

问题2：加载heapdump文件失败，提示heap size不够

问题

```
An internal error occurred during:  
"Parsing heap dump from **\java_pid6564.hprof'".Java heap space
```

分析

提示比较明显，是MAT本身配置的heap size不够。

解决

找到MAT的配置文件，调大heap size便可。

配置文件： `MemoryAnalyzer.ini`

配置项： `-Xmx1024m`

附录二：inception日志

```
2018-12-29 17:20:09.171 INFO -
com.baidu.movie.user.inception.na.controller.DispatcherController -
Request: {"api":1002,"user":
{"bduss":"undefined","cookieBduss":"undefined","stoken":null,"cuid":null,"i
mei":null,"phone":null,"passportid":null,"ip":null,"phoneNo":null,"username
":null,"globalData":null,"baiduid":null,"login":false},"data":
{"cityId":144,"longitude":107.37675524523823,"latitude":22.4009476708
755,"sortByDistance":true,"isHomePage":false,"pageNum":0,"pageSize"
:2},"timestamp":1546075209128,"sign":"d534215102b6d5626dfb7822b4791cb1","v
ersion":"1.0.0.1","channel":"map","client":"1001","experimentIds":
[],"module":null,"subChannel":null,"logId":83296084939054892,"osName":null,
"osVersion":null,"cityType":null,"cityId":null,"https":null,"rateLimit":nul
l,"source":null,"userAgent":null}, mockup = null
```

```
2018-12-29 17:20:09.172 INFO -
com.baidu.movie.user.inception.base.http.DefaultAsyncHttpService - Start
asyncGet logId: 83296084939054892, url: http://10.194.238.11:2002/ssn with
param: {tpl=cmovie, stoken=null, apid=1315, cm=516, cip=10.186.20.19,
incomplete_user=1, sid=undefined}
```

```
2018-12-29 17:20:09.174 INFO -
com.baidu.movie.user.inception.na.controller.DispatcherController - User
Info:
{"bduss":"undefined","cookieBduss":"undefined","stoken":null,"cuid":null,"i
mei":null,"phone":null,"passportid":null,"ip":"10.186.20.19","phoneNo":null
,"username":null,"globalData":null,"baiduid":null,"login":false}
```

```
2018-12-29 17:20:09.174 INFO -
com.baidu.movie.user.inception.base.http.DefaultAsyncHttpService - Start
asyncPostJson: http://bigshot.baidu.com/api/tms/newBatchGet with
{"ids":"39,72,126","cityId":144,"movieId":null,"cinemaId":null,"experimentI
ds":"","userId":null,"displayInfos":
[],"channel":"map","client":"1001","module":null,"logId":1546075209174} and
time out:200
```


2018-12-29 17:20:09.174 INFO -
com.baidu.movie.user.inception.base.http.DefaultAsyncHttpService - Start
asyncPostJson: http://cmovie-se-ui.int.baidu.com/UiService/cinema_search
with
{ "cookie":null, "ip":null, "from":"1001", "qid":null, "uid":null, "query":null, "distance":null, "book":null, "groupon":null, "date":null, "refundable":null, "logid":83296084939054892, "experiment_ids":
[], "city_id":144, "district_id":null, "sort_opt":0, "aoi_ids":null, "metro_station_ids":null, "metro_line_ids":null, "movieids":null, "user_location":
{ "longitude":107.37675524523823, "latitude":22.4009476708755}, "brand_ids":null, "feature_ids":null, "memcard_template_ids":null, "promo_item":null, "cinema_presale_id":null, "schedule_presale_id":null, "need_movieids":null, "relative_cinema_ids":[] } and time out:500

2018-12-29 17:20:09.177 INFO -
com.baidu.movie.user.inception.base.http.DefaultAsyncHttpService - Start
asyncPostJson: http://cmovie-se-facetdict.int.baidu.com/FacetDictService/get_district_aoi_info with
{ "log_id":83296084945066167, "city_id":144, "district_id":null } and time out:10000

2018-12-29 17:20:09.179 INFO -
com.baidu.movie.user.inception.base.http.DefaultAsyncHttpService - Start
asyncPostJson: http://cmovie-se-facetdict.int.baidu.com/FacetDictService/get_metro with
{ "log_id":83296084946763958, "city_id":144 } and time out:10000

2018-12-29 17:20:09.180 INFO -
com.baidu.movie.user.inception.base.http.DefaultAsyncHttpService - Start
asyncPostJsonWithGzip:
http://pandora.dianying.baidu.com/api/coupon/movie/merchant/queryCoupons4CinemaBanner with
{ "logId":"1546075209180", "appKey":"APPCENTER", "sign":"2E9FED3F61E54CB0BCCE1B1676FEE829", "ip":"10.186.20.19", "channel":"map", "client":"1001", "module":null, "cityId":144, "experimentIds":[], "cuid":null, "imei":null, "userInfo":
{ "passuid":null, "regUserMobile":null, "smsUserMobile":null }, "appTag":1, "bduss":"undefined" } and time out:4000

2018-12-29 17:20:09.180 INFO -
com.baidu.movie.user.inception.base.http.DefaultAsyncHttpService - Start
asyncPostJsonWithGzip:
http://pandora.dianying.baidu.com/api/price/getCinemasPriceInfo with
{ "logId":"1546075209180", "appKey":"APPCENTER", "sign":"2E9FED3F61E54CB0BCCE1B1676FEE829", "ip":"10.186.20.19", "channel":"map", "client":"1001", "module":null, "cityId":144, "experimentIds":[], "cuid":null, "imei":null, "userInfo":
{ "passuid":null, "regUserMobile":null, "smsUserMobile":null }, "appTag":1, "bduss":"undefined", "cinemaIds":[10818,10509], "movieId":null, "movieIds":
[], "date":null, "memCardTemplateIds":[] } and time out:500

2018-12-29 17:20:09.185 INFO -
com.baidu.movie.user.inception.base.http.DefaultAsyncHttpService - Start
asyncPostJsonWithGzip:
http://pandora.dianying.baidu.com/api/price/getCinemasPriceInfo with
{ "logId": "1546075209185", "appKey": "APPCENTER", "sign": "98A6B122598A011DD2638
0F60C42DA0C", "ip": "10.186.20.19", "channel": "map", "client": "1001", "module": n
ull, "cityId": 144, "experimentIds": [], "cuid": null, "imei": null, "userInfo":
{ "passuid": null, "regUserMobile": null, "smsUserMobile": null }, "appTag": 1, "bdus
s": "undefined", "cinemaIds": [10818, 10509], "movieId": null, "movieIds":
[], "date": null, "memCardTemplateIds": [] } and time out:500

2018-12-29 17:20:09.387 WARN -
com.baidu.movie.user.inception.base.adspace.DefaultNewAdSpaceService -
getAdSpaceInfos failed with request:
{ "ids": "39,72,126", "cityId": 144, "movieId": null, "cinemaId": null, "experimentI
ds": "", "userId": null, "displayInfos":
[], "channel": "map", "client": "1001", "module": null, "logId": 1546075209174 },
response is null.

2018-12-29 17:20:09.387 ERROR -
com.baidu.movie.user.inception.base.adspace.DefaultNewAdSpaceService -
Bigshot getAdspaceByJson failed.

java.lang.RuntimeException: java.util.concurrent.ExecutionException:
java.util.concurrent.TimeoutException: Request timeout to
bigshot.baidu.com/10.207.7.201:80 after 200 ms

at
com.baidu.movie.user.inception.base.http.FutureAdapter.get(FutureAdapter.java:56)

at
com.baidu.movie.user.inception.base.http.FutureAdapter.get(FutureAdapter.java:44)

at
com.baidu.movie.user.inception.na.component.api.cinema.cinemalist.CinemaLis
tAPI.fillAdSpaceInfo(CinemaListAPI.java:263)

at sun.reflect.GeneratedMethodAccessor2014.invoke(Unknown Source)

at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImp
l.java:43)

at java.lang.reflect.Method.invoke(Method.java:483)

```
at
com.baidu.movie.user.inception.na.component.api.SegmentAPITemplate.execute(
SegmentAPITemplate.java:143)

at
com.baidu.movie.user.inception.na.controller.DispatcherController.handleReq
uest(DispatcherController.java:378)

at
com.baidu.movie.user.inception.na.controller.DispatcherController.getRespon
se(DispatcherController.java:196)

at sun.reflect.GeneratedMethodAccessor904.invoke(Unknown Source)

at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImp
l.java:43)

at java.lang.reflect.Method.invoke(Method.java:483)

at
org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(Invo
cableHandlerMethod.java:221)

at
org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequ
est(InvocableHandlerMethod.java:136)

at
org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandl
erMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:110)

at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandler
Adapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:817)

at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandler
Adapter.handleInternal(RequestMappingHandlerAdapter.java:731)

at
org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.han
dle(AbstractHandlerMethodAdapter.java:85)

at
org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServ
let.java:959)
```

```
at
org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:893)

at
org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:968)

at
org.springframework.web.servlet.FrameworkServlet.doPost(FrameworkServlet.java:870)

at javax.servlet.http.HttpServlet.service(HttpServlet.java:644)

at
org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:844)

at javax.servlet.http.HttpServlet.service(HttpServlet.java:725)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:301)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:121)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)
```

```
at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.apache.logging.log4j.web.Log4jServletFilter.doFilter(Log4jServletFilter.java:71)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:219)

at
org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:106)

at
org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:503)

at
org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:136)

at
org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:78)

at
org.apache.catalina.valves.AbstractAccessLogValve.invoke(AbstractAccessLogValve.java:610)

at
org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:88)

at
org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:526)
```

```
at
org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Proc
essor.java:1033)

at
org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(Abstra
ctProtocol.java:652)

at
org.apache.coyote.http11.Http11NioProtocol$Http11ConnectionHandler.process(
Http11NioProtocol.java:222)

at
org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.doRun(NioEndpoint.ja
va:1566)

at
org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.run(NioEndpoint.java
:1523)

at
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1
42)

at
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:
617)

at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.j
ava:61)

at java.lang.Thread.run(Thread.java:745)

Caused by: java.util.concurrent.ExecutionException:
java.util.concurrent.TimeoutException: Request timeout to
bigshot.baidu.com/10.207.7.201:80 after 200 ms

at java.util.concurrent.CompletableFuture.get(CompletableFuture.java:2237)

at
org.asynchttpclient.netty.NettyResponseFuture.get(NettyResponseFuture.java:
168)

at
com.baidu.movie.user.inception.base.http.FutureAdapter.get(FutureAdapter.ja
va:44)

... 53 more
```

```
Caused by: java.util.concurrent.TimeoutException: Request timeout to
bigshot.baidu.com/10.207.7.201:80 after 200 ms

at
org.asynchttpclient.netty.timeout.TimeoutTimerTask.expire(TimeoutTimerTask.
java:43)

at
org.asynchttpclient.netty.timeout.RequestTimeoutTimerTask.run(RequestTimeou
tTimerTask.java:48)

at
io.netty.util.HashedWheelTimer$HashedWheelTimeout.expire(HashedWheelTimer.j
ava:625)

at
io.netty.util.HashedWheelTimer$HashedWheelBucket.expireTimeouts(HashedWheel
Timer.java:700)

at io.netty.util.HashedWheelTimer$Worker.run(HashedWheelTimer.java:428)

... 1 more
```

附录三：bigshot日志

```
2018-12-29 17:10:12.540 INFO -
com.baidu.movie.user.bigshot.service.tms.TmsApiServiceImpl - position 64 do
not have tms content in city 338

2018-12-29 17:10:12.545 INFO -
com.baidu.movie.user.bigshot.service.tms.TmsApiServiceImpl - position 77 do
not have tms content in city 338

2018-12-29 17:10:12.555 INFO -
com.baidu.movie.user.bigshot.service.tms.TmsApiServiceImpl - position 46 do
not have tms content in city 338

2018-12-29 17:10:12.561 INFO -
com.baidu.movie.user.bigshot.service.aop.OperationRecordAspect - Path:
/api/tms/newBatchGet, Params:
[{"ids":"18,86,46,77,63,64","cityId":338,"cinemaId":null,"movieId":null,"fo
rce":null,"experimentIds":"","userId":null,"displayInfos":null,"channel":"m
ap","client":"webapp","module":null,"logId":1546074611103}], Time: 21 ms
```



```
2018-12-29 17:10:12.566 ERROR -
com.baidu.movie.user.bigshot.web.aop.BigShotControllerAdvice - controller
advice meeting exception

org.apache.catalina.connector.ClientAbortException: java.io.IOException:
Connection reset by peer

at
org.apache.catalina.connector.OutputBuffer.realWriteBytes(OutputBuffer.java
:396)

at org.apache.tomcat.util.buf.ByteChunk.flushBuffer(ByteChunk.java:426)

at
org.apache.catalina.connector.OutputBuffer.doFlush(OutputBuffer.java:342)

at org.apache.catalina.connector.OutputBuffer.flush(OutputBuffer.java:316)

at
org.apache.catalina.connector.CoyoteOutputStream.flush(CoyoteOutputStream.j
ava:110)

at
com.fasterxml.jackson.core.json.UTF8JsonGenerator.flush(UTF8JsonGenerator.j
ava:1022)

at
com.fasterxml.jackson.databind.ObjectWriter.writeValue(ObjectWriter.java:89
1)

at
org.springframework.http.converter.json.AbstractJackson2HttpMessageConverte
r.writeInternal(AbstractJackson2HttpMessageConverter.java:269)

at
org.springframework.http.converter.AbstractGenericHttpMessageConverter.writ
e(AbstractGenericHttpMessageConverter.java:100)

at
org.springframework.web.servlet.mvc.method.annotation.AbstractMessageConver
terMethodProcessor.writeWithMessageConverters(AbstractMessageConverterMetho
dProcessor.java:223)

at
org.springframework.web.servlet.mvc.method.annotation.AbstractMessageConver
terMethodProcessor.writeWithMessageConverters(AbstractMessageConverterMetho
dProcessor.java:154)
```

```
at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerMethod.invokeAndHandle(HandlerMethod.java:126)

at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:743)

at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:832)

at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:743)

at
org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:85)

at
org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:961)

at
org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:895)

at
org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:967)

at
org.springframework.web.servlet.FrameworkServlet.doPost(FrameworkServlet.java:869)

at
javax.servlet.http.HttpServlet.service(HttpServlet.java:644)

at
org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:843)

at
javax.servlet.http.HttpServlet.service(HttpServlet.java:725)
```

```
at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:301)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.springframework.boot.actuate.autoconfigure.EndpointWebMvcAutoConfiguration$ApplicationContextHeaderFilter.doFilterInternal(EndpointWebMvcAutoConfiguration.java:281)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
com.baidu.movie.user.bigshot.web.filter.CheckFilter.doRealFilter(CheckFilter.java:50)

at
com.baidu.movie.user.bigshot.web.filter.CheckFilter.doFilterInternal(CheckFilter.java:124)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)
```

```
at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.springframework.boot.actuate.trace.WebRequestTraceFilter.doFilterInternal(WebRequestTraceFilter.java:115)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.springframework.web.filter.RequestContextFilter.doFilterInternal(RequestContextFilter.java:99)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.springframework.web.filter.HttpPutFormContentFilter.doFilterInternal(HttpPutFormContentFilter.java:87)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)
```

```
at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.springframework.web.filter.HiddenHttpMethodFilter.doFilterInternal(HiddenHttpMethodFilter.java:77)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:121)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)

at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.springframework.boot.actuate.autoconfigure.MetricsFilter.doFilterInternal(MetricsFilter.java:103)

at
org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)
```

```
at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:239)

at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

at
org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:219)

at
org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:106)

at
org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:503)

at
org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:136)

at
org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:78)

at
org.apache.catalina.valves.AbstractAccessLogValve.invoke(AbstractAccessLogValve.java:610)

at
org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:88)

at
org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:526)

at
org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:1033)

at
org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:652)
```

```
at
org.apache.coyote.http11.Http11NioProtocol$Http11ConnectionHandler.process(
Http11NioProtocol.java:222)

at
org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.doRun(NioEndpoint.java:1566)

at
org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.run(NioEndpoint.java:1523)

at
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1142)

at
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:617)

at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)

at java.lang.Thread.run(Thread.java:745)

Caused by: java.io.IOException: Connection reset by peer

at sun.nio.ch.FileDispatcherImpl.write0(Native Method)

at sun.nio.ch.SocketDispatcher.write(SocketDispatcher.java:47)

at sun.nio.ch.IOUtil.writeFromNativeBuffer(IOUtil.java:93)

at sun.nio.ch.IOUtil.write(IOUtil.java:65)

at sun.nio.ch.SocketChannelImpl.write(SocketChannelImpl.java:470)

at org.apache.tomcat.util.net.NioChannel.write(NioChannel.java:122)

at
org.apache.tomcat.util.net.NioBlockingSelector.write(NioBlockingSelector.java:101)

at
org.apache.tomcat.util.net.NioSelectorPool.write(NioSelectorPool.java:173)
```



```
at
org.apache.coyote.http11.InternalNioOutputBuffer.writeToSocket(InternalNioOutputBuffer.java:139)

at
org.apache.coyote.http11.InternalNioOutputBuffer.addToBB(InternalNioOutputBuffer.java:197)

at
org.apache.coyote.http11.InternalNioOutputBuffer.access$000(InternalNioOutputBuffer.java:41)

at
org.apache.coyote.http11.InternalNioOutputBuffer$SocketOutputBuffer.doWrite(InternalNioOutputBuffer.java:320)

at
org.apache.coyote.http11.filters.ChunkedOutputFilter.doWrite(ChunkedOutputFilter.java:121)

at
org.apache.coyote.http11.AbstractOutputBuffer.doWrite(AbstractOutputBuffer.java:257)

at org.apache.coyote.Response.doWrite(Response.java:523)

at
org.apache.catalina.connector.OutputBuffer.realWriteBytes(OutputBuffer.java:391)

... 78 more
```