Jenkins设置控制台输出字符编码

为了在进行持续集成时只跑指定的maven测试套件，在pom.xml中配置了使用的编码是UTF-8：

```
<properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <!-- 执行Maven命令时控制台输出乱码 -->
    <argLine>-Dfile.encoding=UTF-8</argLine>
</properties>
```

本身输出log是没乱码的，但是控制台输出时出现了乱码，即仅在网页展示有乱码。
如：C:\Program Files (x86)\Jenkins\jobs\UITest_dailybuild_5.3.0\builds\102\log 这个文件即jenkies网页上的编译结果

查看jenkins中系统管理——系统信息里file.encoding系统变量的编码为GBK，由于我将Jenkins安装在Windows平台上，并且将其注册为Windows服务跟随系统开机自启动。
默认Jenkins的控制台输出字符编码是跟随平台的，因此当在surefire中设置输出字符编码为UTF-8后会导致乱码。因此需要修改Jenkins中的字符编码：

解决方法：
1、设置jenkins服务器环境变量 JAVA_TOOL_OPTIONS=-Dfile.encoding=UTF8
2、设置Jenkins的系统管理——系统设置，添加全局编码环境变量：名：LANG，值：zh_CN.UTF-8

重启服务，再查看jenkins中系统管理——系统信息里file.encoding系统变量的编码，已经变为UTF-8。输出也正常了。

由于服务器环境及应用层各版本的不同、编码方式的不同因此会有很多种情况会出现乱码问题。
Jenkins中的job运行的是独立的一个shell环境，许多的环境变量与服务器中是不一样的，因此在job中执行的命令也就会有所差异。

因此可以在job中执行env命令，同时在服务器中执行env命令查看环境的异同点。
要避免Jenkins中乱码问题，要确保Jenkins的容器的编码跟log/控制台的编码是一致的。参考资料

乱码前

```
[INFO] Copying 1 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ MobileAutoTest ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 34 source files to E:\project\TestGroup\svn\MobileAutoTest\git\MobileAutoTest\target\test-classes
[WARNING] /E:/project/TestGroup/svn/MobileAutoTest/git/MobileAutoTest/src/test/java/Testcase/IOS/Settlement.java: E:\project\TestGroup\svn\MobileAutoTest\git\MobileAutoTest
使用或覆盖了已过时的 API。
[WARNING] /E:/project/TestGroup/svn/MobileAutoTest/git/MobileAutoTest/src/test/java/Testcase/IOS/Settlement.java: 有关详细信息，请使用 -Xlint:deprecation 重新编译。
[INFO]
[INFO] --- maven-surefire-plugin:2.5:test (default-test) @ MobileAutoTest ---
[INFO] Surefire report directory: E:\project\TestGroup\svn\MobileAutoTest\git\MobileAutoTest\target\surefire-reports

-------------------------------------------------------
 T E S T S
-------------------------------------------------------
Running TestSuite
2016-09-02 23:50:24,660 [INFO] onExecutionStart
2016-09-02 23:50:24,670 [INFO] Clear cache
2016-09-02 23:50:24,802 [INFO] set map for all views' components
Capabilities [{app=E:\project\TestGroup\svn\MobileAutoTest\git\MobileAutoTest/JDMALL-release.apk, appPackage=com.jingdong.app.mall, noReset=true, noSign=true, appWaitActivi
deviceName=htc_802t, fullReset=false, appActivity=.MainActivity, autoLaunch=null, newCommandTimeout=600, platformVersion=5.1.1, unicodeKeyboard=true, platformName=Android}]
Fri Sep 02 23:51:26 CST 2016
2016-09-02 23:51:26,854 [INFO] 寮?濮?
Fri Sep 02 23:51:26 CST 2016
2016-09-02 23:51:29,877 [INFO] clearAndroidCache
2016-09-02 23:51:29,883 [INFO] launchAndroidApp
2016-09-02 23:51:39,885 [INFO] skipToMainView
2016-09-02 23:51:46,887 [INFO] onTestStart
2016-09-02 23:51:47,484 [INFO]
2016-09-02 23:51:47,672 [INFO]
2016-09-02 23:51:47,672 [INFO] class Testcase.Android.UserLogin
2016-09-02 23:51:47,673 [INFO] TC2001
2016-09-02 23:51:47,673 [INFO] TestDriver annotation is exist
2016-09-02 23:51:47,673 [INFO] AppiumDriver
2016-09-02 23:51:47,674 [INFO] 鍒涘缓鍙緂ppium
2016-09-02 23:51:47,674 [INFO] clickswitchView
2016-09-02 23:52:03,510 [INFO] methodNa=findElementByXPath  id=index4
2016-09-02 23:52:07,469 [INFO] 鏌ヨ嚦[鎴戠殑浜  閾]
2016-09-02 23:52:07,469 [INFO] =====鏉ュ僵澶灏塺鏍?
2016-09-02 23:52:07,929 [INFO] methodNa=findElementByXPath  id=LoginSignButton
2016-09-02 23:52:09,094 [INFO] 鏌ヨ嚦 [鐧诲綍/娉ㄥ啽 鎸夐挳]
2016-09-02 23:52:09,693 [INFO] methodNa=findElementByXPath  id=UserName
2016-09-02 23:52:09,931 [INFO] 鏌ヨ嚦 [鎴戠殑浜  绠鐞儿桐鍚婂皢缂鍏ユ  ]
2016-09-02 23:52:10,500 [INFO] methodNa=findElementByXPath  id=UserName
```

解决后

```
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 34 source files to E:\project\TestGroup\svn\MobileAutoTest\git\MobileAutoTest\target\test-classes
[WARNING] /E:/project/TestGroup/svn/MobileAutoTest/git/MobileAutoTest/src/test/java/Testcase/IOS/Settlement.java: E:\project\TestGroup\svn\MobileAutoTest\git\Mobile
使用或覆盖了已过时的 API。
[WARNING] /E:/project/TestGroup/svn/MobileAutoTest/git/MobileAutoTest/src/test/java/Testcase/IOS/Settlement.java: 有关详细信息，请使用 -Xlint:deprecation 重新编译。
[INFO]
[INFO] --- maven-surefire-plugin:2.5:test (default-test) @ MobileAutoTest ---
[INFO] Surefire report directory: E:\project\TestGroup\svn\MobileAutoTest\git\MobileAutoTest\target\surefire-reports

-------------------------------------------------------
 T E S T S
-------------------------------------------------------
Running TestSuite
2016-09-08 18:13:09,530 [INFO] onExecutionStart
2016-09-08 18:13:09,544 [INFO] Clear cache
2016-09-08 18:13:09,677 [INFO] set map for all views' components
Capabilities [{app=E:\project\TestGroup\svn\MobileAutoTest\git\MobileAutoTest\JDMALL-release.apk, appPackage=com.jingdong.app.mall, noReset=true, noSign=true, appWa
deviceName=htc_802t, fullReset=false, appActivity=.MainActivity, autoLaunch=null, newCommandTimeout=600, platformVersion=5.1.1, unicodeKeyboard=true, platformName=A
Thu Sep 08 18:14:14 CST 2016
2016-09-08 18:14:14,043 [INFO] 开始
Thu Sep 08 18:14:14 CST 2016
2016-09-08 18:14:17,077 [INFO] clearAndroidCache
2016-09-08 18:14:17,086 [INFO] launchAndroidApp
2016-09-08 18:14:57,794 [INFO] =====首页广告-false
2016-09-08 18:14:57,794 [INFO] =====广告不存在
2016-09-08 18:15:02,795 [INFO] skipToMainView
2016-09-08 18:15:09,797 [INFO] onTestStart
2016-09-08 18:15:10,297 [INFO]
2016-09-08 18:15:10,486 [INFO]
2016-09-08 18:15:10,486 [INFO] class Testcase.Android.UserLogin
2016-09-08 18:15:10,487 [INFO] TC2001
2016-09-08 18:15:10,487 [INFO] TestDriver annotation is exist
2016-09-08 18:15:10,487 [INFO] AppiumDriver
2016-09-08 18:15:10,488 [INFO] 切换到Appium
2016-09-08 18:15:10,489 [INFO] clickswitchView
2016-09-08 18:15:10,809 [INFO] methodNa=findElementByXPath  id=index4
2016-09-08 18:15:11,278 [INFO] 点击[我的京东]
2016-09-08 18:15:12,920 [INFO] methodNa=findElementByXPath  id=LoginSignButton
2016-09-08 18:15:16,111 [INFO] 点击 [登录/注册 按钮]
2016-09-08 18:15:16,219 [INFO] methodNa=findElementByXPath  id=UserName
2016-09-08 18:15:18,391 [INFO] 点击 [我的京东用户名输入框]
2016-09-08 18:15:18,511 [INFO] methodNa=findElementByXPath  id=UserName
2016-09-08 18:15:23,422 [INFO] [我的京东用户名输入框] 输入文本:thisis_test
2016-09-08 18:15:24,003 [INFO] methodNa=findElementByXPath  id=PassWord
```