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Agilent Technologies

MQA

Batch Mode Application in MQA

Application Note

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Batch Mode Application in MQA

Application Note

This application note describes how to batch run multiple tasks in Model Quality Assurance (MQA). **Note:** This document was originally released for MQA V2010.2.0.1 in August 2011.

Introduction

MQA supports the ability to run multiple tasks in batch to improve efficiency. In this application note, we use two examples to introduce the specific procedure. For more information go to www.agilent.com/find/eesof or contact your local Agilent office. The complete list is available at: www.agilent.com/find/contactus.

Run QA Projects in Batch Mode

MQA supports the ability to run multiple QA projects in batch mode. In order to execute the command "qa" in a prompt or shell window directly, the environment variable must first be configured.

For Microsoft® Windows®, edit the environment variables by right-clicking on *My Computer*, then click the *Advanced* tab. Next, click the *Environment Variables* button. In the *System variables* panel, edit the variable named "Path" and append "\$MQA_HOME/bin" to its value (here \$MQA_HOME is your MQA installation path on the computer). Use a semicolon to separate it from other values.

For the Linux/Oracle® Solaris, follow the instructions below for different shells:

- For C shell, add "*set path=(\$path/\$MQA_HOME/bin)*" to the shell configuration file (for example, *.cshrc*).
- For B shell, add "*PATH=\$PATH:\$MQA_HOME/bin*" to the shell configuration file (for example, *.bashrc* or *.bash_profile*).

Although the command "qa" does not support the ability to run multiple projects at one time directly, this capability can still be realized by creating a batch file, "*myQA.bat*." For example, if there are three Quality Assurance (QA) projects (*test1.prj*, *test2.prj* and *test3.prj*) that need to be run, must put the following lines in the batch file:

- For the Microsoft Windows:
qa Test1.prj
qa Test2.prj
qa Test3.prj
- For the Linux/Oracle Solaris:
#!/bin/sh
qa Test1.prj
qa Test2.prj

qa Test3.prj

After that, enter the folder containing these projects and run the command "*myQA.bat*." Doing so runs the batch QA for all three projects.

Export Reports in Batch Mode

MQA also supports the ability to export reports in batch mode. Similarly, the environment variable needs to be configured properly to enable the "*runreport*" command to run in a prompt or shell window directly.

For Microsoft Windows, edit the environment variables by right-clicking on *My Computer* and click the *Advanced* tab. Then click the *Environment Variables* button. In the *System variables* panel, edit the variable named "Path" and append "\$MQA_HOME/bin" to its value (here \$MQA_HOME is your MQA installation path on the computer). Use a semicolon to separate it from other values.

For the Linux/Oracle Solaris, follow the instructions below for different shells:

- For the C shell, add "*set path=(\$path/\$MQA_HOME/bin)*" to the shell configuration file (for example, *.cshrc*).
- For the B shell, add "*PATH=\$PATH:\$MQA_HOME/bin*" to the shell configuration file (for example, *.bashrc* or *.bash_profile*).

The syntax for the command "*runreport*" is as following:

Function: Generate Report by batch mode

Usage : runreport [option] [input file]

Options:

<i>-help/h</i>	<i>print this message</i>
<i>-pr</i>	<i>generate result from project file (.rpj)</i>
<i>-px</i>	<i>generate xml from project file *.rpj</i>
<i>-pd</i>	<i>generate document from project file *.rpj</i>
<i>-rx</i>	<i>generate xml from result</i>
<i>-rd</i>	<i>generate document from result</i>
<i>-xd</i>	<i>generate document from xml</i>
<i>-jx</i>	<i>generate xml from project file *.prj</i>
<i>-jd</i>	<i>generate document from project file *.prj</i>
<i>-logfile/log/l</i>	<i>specify log file</i>
<i>-type</i>	<i>specify report type</i>
<i>-layout</i>	<i>specify layout number</i>
<i>-order</i>	<i>specify order of the .config file</i>
<i>-template/temp/t</i>	<i>specify template file</i>
<i>-errorplot</i>	<i>only export [Error] items</i>

Examples:

runreport -h

runreport -pr C:\test.rpj

runreport -xd C:\test.xml

runreport -rd C:\test.etr

runreport -rd C:\test\result -type PDF -layout 6

```
runreport -jd C:\test.prj -type PPT -layout 4 -order C:\order.config -temp C:\result.ppt
```

Although the command "runreport" does not support running multiple projects at one time directly, this capability can be realized by creating a batch file *myReport.bat*. For example, you can put the following lines in the batch file:

- For the Microsoft Windows:

```
call runreport -jd /home/user/Test1.prj  
call runreport -rd /home/user/Test2  
call runreport -rd /home/user/Test3
```
- For the Linux/Oracle Solaris user:

```
#!/bin/sh  
runreport -jd /home/user/Test1.prj  
runreport -rd /home/user/Test2  
runreport -rd /home/user/Test3
```

After that, enter the folder containing these projects (/home/user/, in this example) and run the command "myReport.bat." This command runs QA for the project *Test1.prj* first, and then generates the corresponding report. Lastly, it generates the reports for the existing project folders (*Test2* and *Test3*, in this example).

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