**Graph Postscript**

**Test Cases and Procedures**

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# Test Cases

**Cget**

**Test Case 1**

**Test Case ID –** RBC.graph.postscript.1

**Test Item –** The *postscript cget* command of the *graph* BLT component.

**Input Specification –** A configuration *option* flag

**Output Specification –** The current value for the *option* flag

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.graph.postscript.2

**Configure**

**Test Case 2**

**Test Case ID –** RBC.graph.postscript.2

**Test Item –** The *postscript configure* command of the *graph* BLT component.

**Input Specification –** A valid configuration *option* flag and *value* pair

**Output Specification –** *postscript cget -option* should return *value*

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.graph.postscript.1

**Output**

**Test Case 3**

**Test Case ID –** RBC.graph.postscript.3

**Test Item –** The *postscript output* command of the *graph* BLT component.

**Input Specification –** An existing graph, optional *filename*, and optional *option*-*value* pairs

**Output Specification –** Postscript representing the graph will be generated according to the configuration as dictated by the *option-value* pairs. If *filename* is present, the Postscript will be saved to the file, otherwise it will be returned to the console

**Special Procedural Requirements –** None

**Inter-case Dependencies –** None

**Test Case 4**

**Test Case ID –** RBC.graph.postscript.4

**Test Item –** The *postscript output* command of the *graph* BLT component.

**Input Specification –** An existing graph, optional *filename*, and optional *option*-*value* pairs

**Output Specification –** Postscript representing the graph will be generated according to the configuration as dictated by the *option-value* pairs. If *filename* is present, the Postscript will be saved to the file, otherwise it will be returned to the console

**Special Procedural Requirements –** None

**Inter-case Dependencies –** None

# Automated Tests

**Cget**

***Test Case 1***

**Test Procedure – Cget**

**Purpose –** Ensure that cget works for default values.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.1.1

**Test Procedure – Cget Default**

**Purpose –** Ensure that cget works with an explicitly set option.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.1.2

**Configure**

***Test Case 2***

**Test Procedure – Configure Center False**

**Purpose –** Ensure that the center configuration works for valid booleans.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.1

**Test Procedure – Configure Center True**

**Purpose –** Ensure that the center configuration works for valid booleans.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.2

**Test Procedure – Configure Colormode Color**

**Purpose –** Ensure that the colormode configuration works for color mode.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.3

**Test Procedure – Configure Colormode Gray**

**Purpose –** Ensure that the colormode configuration works for gray mode.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.4

**Test Procedure – Configure Colormode Greyscale**

**Purpose –** Ensure that the colormode configuration works for grayscale mode.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.5

**Test Procedure – Configure Colormode Mono**

**Purpose –** Ensure that the colormode configuration works for mono mode.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.6

**Test Procedure – Configure Colormode Monochrome**

**Purpose –** Ensure that the colormode configuration works for monochrome mode.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.7

**Test Procedure – Configure Decorations False**

**Purpose –** Ensure that the decorations configuration works.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.8

**Test Procedure – Configure Decorations True**

**Purpose –** Ensure that the decorations configuration works.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.9

**Test Procedure – Configure Height Zero**

**Purpose –** Ensure that the height configuration works for zero.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.10

**Test Procedure – Configure Height**

**Purpose –** Ensure that the height configuration works for valid values.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.11

**Test Procedure – Configure Landscape False**

**Purpose –** Ensure that the landscape configuration works.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.12

**Test Procedure – Configure Landscape True**

**Purpose –** Ensure that the landscape configuration works.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.13

**Test Procedure – Configure Maxpect Zero**

**Purpose –** Ensure that the maxpect configuration works.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.14

**Test Procedure – Configure Maxpect**

**Purpose –** Ensure that the maxpect configuration works.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.15

**Test Procedure – Configure Padx Single Value**

**Purpose –** Ensure that the padx configuration works for a single value.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.16

**Test Procedure – Configure Padx Multiple Values**

**Purpose –** Ensure that the padx configuration works for multiple values.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.17

**Test Procedure – Configure Pady Single Value**

**Purpose –** Ensure that the pady configuration works for a single value.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.18

**Test Procedure – Configure Pady Multiple Values**

**Purpose –** Ensure that the pady configuration works for multiple values.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.19

**Test Procedure – Configure Paper Height**

**Purpose –** Ensure that the paperheight configuration works for valid values.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.20

**Test Procedure – Configure Paper Width**

**Purpose –** Ensure that the paperwidth configuration works for valid values.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.21

**Test Procedure – Configure Width Zero**

**Purpose –** Ensure that the width configuration works for zero.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.22

**Test Procedure – Configure Width**

**Purpose –** Ensure that the width configuration works for valid values.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.2.23

**Output**

***Test Case 3***

**Test Procedure – Output to Console**

**Purpose –** Ensure that output will print postscript to the console.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.3.1

**Test Procedure – Output to File**

**Purpose –** Ensure that output will print postscript to a file.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.3.2

**Test Procedure – Output to Console with Options**

**Purpose –** Ensure that output will print postscript to the console with option-value pairs.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.3.3

**Test Procedure – Output to File with Options**

**Purpose –** Ensure that output will print postscript to a file with option-value pairs.

**Special Requirements –** None

**TclTest –** RBC.graph.postscript.3.4

# Manual Tests

**Output**

***Test Case 4***

**Test Procedure – Output to Console**

**Purpose –** Ensure that correct postscript output is returned.

**Special Requirements –** Current working directory for the wish interpreter must be known.

**Procedural Steps**

* Setup – Run the “RBC.graph.postscript.4.tcl” file and then call the “graph.postscript::RBC.graph.postscript.4.1.Setup” Tcl command
* Pre-Condition – An empty graph exists with only the axes showing. There is a file “RBC.graph.postcript.4.1.ps” in the current working directory with a size of 0Kb.
* Body

1. Call the “graph.postscript::RBC.graph.postscript.4.1.Body” Tcl command

* Post-Condition – The file “RBC.graph.postscript.4.1.ps” has content in it that matches the content in the “postScriptOutputTest.ps” file
* Cleanup – Call the “graph.postscript::RBC.graph.postscript.4.1.Cleanup” command

**Test Procedure – Output to File**

**Purpose –** Ensure that correct postscript output is written to a file.

**Special Requirements –** Current working directory for the wish interpreter must be known.

**Procedural Steps**

* Setup – Run the “RBC.graph.postscript.4.tcl” file and then call the “graph.postscript::RBC.graph.postscript.4.2.Setup” Tcl command
* Pre-Condition – An empty graph exists with only the axes showing.
* Body

1. Call the “graph.postscript::RBC.graph.postscript.4.2.Body” Tcl command

* Post-Condition – The file “RBC.graph.postscript.4.2.ps” has content in it that matches the content in the “postScriptOutputTest.ps” file
* Cleanup – Call the “graph.postscript::RBC.graph.postscript.4.2.Cleanup” command