**Graph Axis**

**Test Cases and Procedures**

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# Bind

## Test Case 1

**Test Case ID –** RBC.graph.axis.bind.A.1

**Test Item –** The *bind* function for axis of the *graph* BLT component

**Input Specification –** A binding for a specified axis

**Output Specification –** A binding is properly set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 1**

**Purpose –**Ensure that bindings can be created for an axis element

**Special Requirements –** None

**TclTest –** RBC.graph.axis.bind.A.1.1

### Test Procedure – 2

**Test Case 1**

**Purpose –** Ensure that bindings can be queried for a sequence and axis element

**Special Requirements –** None

**TclTest –** RBC.graph.axis.bind.A.1.2

### Test Procedure – 3

**Test Case 1**

**Purpose –** Ensure that bindings can be appended for a sequence and axis element

**Special Requirements –** None

**TclTest –** RBC.graph.axis.bind.A.1.3

### Test Procedure – 4

**Test Case 1**

**Purpose –** Ensure that bindings are overwritten for a sequence and axis element

**Special Requirements –** None

**TclTest –** RBC.graph.axis.bind.A.1.4

### Test Procedure – 5

**Test Case 1**

**Purpose –** Ensure that bound sequences can be queried for just a legend element

**Special Requirements –** None

**TclTest –** RBC.graph.axis.bind.A.1.5

# Cget

## Test Case 1

**Test Case ID –** RBC.graph.axis.cget.A.1

**Test Item –** The *cget* function for axis of the *graph* BLT component

**Input Specification –** A configuration option name

**Output Specification –** The current setting of the configuration option

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 1**

**Purpose –**Ensure the current configuration settings of a valid option can be retrieved for one given axis name

**Special Requirements –** None

**TclTest –** RBC.graph.axis.cget.A.1.1

### Test Procedure – 2

**Test Case 1**

**Purpose –**Ensure that the current configuration settings of an invalid option name returns an error

**Special Requirements –** None

**TclTest –** RBC.graph.axis.cget.A.1.2

### Test Procedure – 3

**Test Case 1**

**Purpose –**Ensure that the current configuration settings of a valid option can be retrieved for two given axes names.

**Special Requirements –** None

**TclTest –** RBC.graph.axis.cget.A.1.3

# Configure

## Test Case 1

**Test Case ID –** RBC.graph.axis.configure.A.1

**Test Item –** The *configure* *–bindtags* function for axis of the *graph* BLT component

**Input Specification –** A binding name and action for a specified axis

**Output Specification –** The action specified in the binding is performed

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 1**

**Purpose –** Ensure the axis configure –bindtags command works correctly when given a single tag name

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.1.1

### Test Procedure – 2

**Test Case 1**

**Purpose –** Ensure the axis configure –bindtags command works correctly when given a list of tag names

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.1.2

## Test Case 2

**Test Case ID –** RBC.graph.axis.configure.A.2

**Test Item –** The *configure -color* function for axis of the *graph* BLT component

**Input Specification –** A valid color name

**Output Specification –** The axis color is configured

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 2**

**Purpose –** Ensure the axis configure –color command works correctly when given a valid color

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.2.1

## Test Case 3

**Test Case ID –** RBC.graph.axis.configure.A.3

**Test Item –** The *configure -command* function for axis of the *graph* BLT component

**Input Specification –** A valid color name

**Output Specification –** The axis color is configured

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 3**

**Purpose –** Ensure the axis configure –command command works correctly

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.3.1

## Test Case 4

**Test Case ID –** RBC.graph.axis.configure.A.4

**Test Item –** The *configure -descending* function for axis of the *graph* BLT component

**Input Specification –** An indicator of whether or not the axis should be descending

**Output Specification –** A properly displaying axis (either descending or ascending)

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 4**

**Purpose –** Ensure the axis configure –descending command works correctly when given “1” (one)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.4.1

### Test Procedure – 2

**Test Case 4**

**Purpose –** Ensure the axis configure –descending command works correctly when given “0” (zero)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.4.2

### Test Procedure – 3

**Test Case 4**

**Purpose –** Ensure the axis configure –descending command works correctly when given “yes”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.4.3

**Test Procedure – 4**

**Test Case 4**

**Purpose –** Ensure the axis configure –descending command works correctly when given “no”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.4.4

### Test Procedure – 5

**Test Case 4**

**Purpose –** Ensure the axis configure –descending command works correctly when given “true”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.4.5

### Test Procedure – 6

**Test Case 4**

**Purpose –** Ensure the axis configure –descending command works correctly when given “false”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.4.6

## Test Case 5

**Test Case ID –** RBC.graph.axis.configure.A.5

**Test Item –** The *configure -hide* function for axis of the *graph* BLT component

**Input Specification –** An indicator of whether or not the axis should be hidden

**Output Specification –** An axis with the properly set visibility

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 5**

**Purpose –** Ensure the axis configure –hide command works correctly when given “1” (one)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.5.1

### Test Procedure – 2

**Test Case 5**

**Purpose –** Ensure the axis configure –hid command works correctly when given “true”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.5.2

### Test Procedure – 3

**Test Case 5**

**Purpose –** Ensure the axis configure –hide command works correctly when given “yes”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.5.3

### Test Procedure – 4

**Test Case 5**

**Purpose –** Ensure the axis configure –hide command works correctly when given “0” (zero)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.5.4

### Test Procedure – 5

**Test Case 5**

**Purpose –** Ensure the axis configure –descending command works correctly when given “no”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.5.5

### Test Procedure – 6

**Test Case 5**

**Purpose –** Ensure the axis configure –descending command works correctly when given “false”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.5.6

## Test Case 6

**Test Case ID –** RBC.graph.axis.configure.A.6

**Test Item –** The *configure -justify* function for axis of the *graph* BLT component

**Input Specification –** A valid justification flag

**Output Specification –** The justification is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 6**

**Purpose –** Ensure the axis configure –justify command works correctly when given “left”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.6.1

### Test Procedure – 2

**Test Case 6**

**Purpose –** Ensure the axis configure –justify command works correctly when given “right”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.6.2

### Test Procedure – 3

**Test Case 6**

**Purpose –** Ensure the axis configure –justify command works correctly when given “center”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.6.3

## Test Case 7

**Test Case ID –** RBC.graph.axis.configure.A.7

**Test Item –** The *configure -limitsformat* function for axis of the *graph* BLT component

**Input Specification –** A string containing two labels

**Output Specification –** The limit labels are set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 7**

**Purpose –** Ensure the axis configure –limitsformat command works correctly when given “Minimum Maximum”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.7.1

## Test Case 9

**Test Case ID –** RBC.graph.axis.configure.A.9

**Test Item –** The *configure –limitsshadow* function for axis of the *graph* BLT component

**Input Specification –** A valid color option

**Output Specification –** The color is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 9**

**Purpose –** Ensure the axis configure –limitsshadow command works correctly when given “blue”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.9.1

## Test Case 10

**Test Case ID –** RBC.graph.axis.configure.A.10

**Test Item –** The *configure -limitscolor* function for axis of the *graph* BLT component

**Input Specification –** A valid color option

**Output Specification –** The limit color is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 10**

**Purpose –** Ensure the axis configure –limitscolor command works correctly when given “blue”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.10.1

## Test Case 11

**Test Case ID –** RBC.graph.axis.configure.A.11

**Test Item –** The *configure -limitsfont* function for axis of the *graph* BLT component

**Input Specification –** A string specifying a valid type setting

**Output Specification –** The font is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 11**

**Purpose –** Ensure the axis configure –limitsfont command works correctly when given “\*-Helvetica-Bold-R-Normal-\*-14-140-\*”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.11.1

## Test Case 12

**Test Case ID –** RBC.graph.axis.configure.A.12

**Test Item –** The *configure -linewidth* function for axis of the *graph* BLT component

**Input Specification –** A number specifying the line width

**Output Specification –** The line width is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 12**

**Purpose –** Ensure the axis configure –linewidth command works correctly when given “2” (two)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.12.1

## Test Case 13

**Test Case ID –** RBC.graph.axis.configure.A.13

**Test Item –** The *configure -logscale* function for axis of the *graph* BLT component

**Input Specification –** An indicator of evaluating to either true or false

**Output Specification –** The logscale is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 13**

**Purpose –** Ensure the axis configure –logscale command works correctly when given “1” (one)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.13.1

### Test Procedure – 2

**Test Case 13**

**Purpose –** Ensure the axis configure –logscale command works correctly when given “true”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.13.2

### Test Procedure – 3

**Test Case 13**

**Purpose –** Ensure the axis configure –logscale command works correctly when given “yes”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.13.3

### Test Procedure – 4

**Test Case 13**

**Purpose –** Ensure the axis configure –logscale command works correctly when given “0” (zero)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.13.4

### Test Procedure – 5

**Test Case 13**

**Purpose –** Ensure the axis configure –logscale command works correctly when given “no”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.13.5

### Test Procedure – 6

**Test Case 13**

**Purpose –** Ensure the axis configure –logscale command works correctly when given “false”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.13.6

## Test Case 14

**Test Case ID –** RBC.graph.axis.configure.A.14

**Test Item –** The *configure -loose* function for axis of the *graph* BLT component

**Input Specification –** An indicator of evaluating to either true or false

**Output Specification –** The loose command is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 14**

**Purpose –** Ensure the axis configure –loose command works correctly when given “1” (one)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.14.1

### Test Procedure – 2

**Test Case 14**

**Purpose –** Ensure the axis configure –loose command works correctly when given “yes”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.14.2

### Test Procedure – 3

**Test Case 14**

**Purpose –** Ensure the axis configure –loose command works correctly when given “true”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.14.3

### Test Procedure – 4

**Test Case 14**

**Purpose –** Ensure the axis configure –loose command works correctly when given “0” (zero)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.14.4

### Test Procedure – 5

**Test Case 14**

**Purpose –** Ensure the axis configure –loose command works correctly when given “no”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.14.5

### Test Procedure – 6

**Test Case 14**

**Purpose –** Ensure the axis configure –loose command works correctly when given “false”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.14.6

## Test Case 15

**Test Case ID –** RBC.graph.axis.configure.A.15

**Test Item –** The *configure -majorticks* function for axis of the *graph* BLT component

**Input Specification –** A list of numbers

**Output Specification –** The major ticks are set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 15**

**Purpose –** Ensure the axis configure –majorticks command works correctly when given “1 3 5 7 9 11”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.15.1

## Test Case 16

**Test Case ID –** RBC.graph.axis.configure.A.16

**Test Item –** The *configure -max* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The max value is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 16**

**Purpose –** Ensure the axis configure –max command works correctly when given “23”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.16.1

## Test Case 17

**Test Case ID –** RBC.graph.axis.configure.A.17

**Test Item –** The *configure -min* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The min value is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 17**

**Purpose –** Ensure the axis configure –min command works correctly when given “-23”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.17.1

## Test Case 18

**Test Case ID –** RBC.graph.axis.configure.A.17

**Test Item –** The *configure -minorticks* function for axis of the *graph* BLT component

**Input Specification –** A list of numbers

**Output Specification –** The minor ticks are set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 18**

**Purpose –** Ensure the axis configure –minorticks command works correctly when given “0.2 0.4 0.6 0.8”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.18.1

## Test Case 19

**Test Case ID –** RBC.graph.axis.configure.A.19

**Test Item –** The *configure -rotate* function for axis of the *graph* BLT component

**Input Specification –** A number in degrees

**Output Specification –** The rotation value is set a specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 19**

**Purpose –** Ensure the axis configure –rotate command works correctly when given “90.0”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.19.1

### Test Procedure – 2

**Test Case 19**

**Purpose –** Ensure the axis configure –rotate command works correctly when given “-90.0”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.19.2

## Test Case 20

**Test Case ID –** RBC.graph.axis.configure.A.20

**Test Item –** The *configure -scrollcommand* function for axis of the *graph* BLT component

**Input Specification –**

**Output Specification –**

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 20**

**Purpose –** Ensure the axis configure –scrollcommand command works correctly when given “”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.20.1

## Test Case 21

**Test Case ID –** RBC.graph.axis.configure.A.21

**Test Item –** The *configure -scrollmax* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The scrollmax value is set a specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 21**

**Purpose –** Ensure the axis configure –scrollmax command works correctly when given “19”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.21.1

## Test Case 22

**Test Case ID –** RBC.graph.axis.configure.A.22

**Test Item –** The *configure -scrollmin* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The scrollmin value is set a specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 22**

**Purpose –** Ensure the axis configure –scrollmin command works correctly when given “-19”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.22.1

## Test Case 23

**Test Case ID –** RBC.graph.axis.configure.A.23

**Test Item –** The *configure -showticks* function for axis of the *graph* BLT component

**Input Specification –** An indicator of evaluating to either true or false

**Output Specification –** The showticks command is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 23**

**Purpose –** Ensure the axis configure –showticks command works correctly when given “1” (one)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.23.1

### Test Procedure – 2

**Test Case 23**

**Purpose –** Ensure the axis configure –showticks command works correctly when given “yes”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.23.2

### Test Procedure – 3

**Test Case 23**

**Purpose –** Ensure the axis configure –showticks command works correctly when given “true”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.23.3

### Test Procedure – 4

**Test Case 23**

**Purpose –** Ensure the axis configure –showticks command works correctly when given “0” (zero)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.23.4

### Test Procedure – 5

**Test Case 23**

**Purpose –** Ensure the axis configure –showticks command works correctly when given “no”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.23.5

### Test Procedure – 6

**Test Case 23**

**Purpose –** Ensure the axis configure –showticks command works correctly when given “false”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.23.6

## Test Case 24

**Test Case ID –** RBC.graph.axis.configure.A.24

**Test Item –** The *configure -stepsize* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The stepsize value is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 24**

**Purpose –** Ensure the axis configure –stepsize command works correctly when given “.01”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.24.1

## Test Case 25

**Test Case ID –** RBC.graph.axis.configure.A.25

**Test Item –** The *configure -subdivisions* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The number of subdivisions is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 25**

**Purpose –** Ensure the axis configure –subdivisions command works correctly when given “6”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.25.1

## Test Case 26

**Test Case ID –** RBC.graph.axis.configure.A.26

**Test Item –** The *configure -tickfont* function for axis of the *graph* BLT component

**Input Specification –** An typesetting

**Output Specification –** The font is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 26**

**Purpose –** Ensure the axis configure –tickfont command works correctly when given “\*-Helvetica-Bold-R-Normal-\*-14-140-\*”, a valid typesetting

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.26.1

## Test Case 27

**Test Case ID –** RBC.graph.axis.configure.A.27

**Test Item –** The *configure -ticklength* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The tick length is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 27**

**Purpose –** Ensure the axis configure –ticklength command works correctly when given “20”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.27.1

## Test Case 28

**Test Case ID –** RBC.graph.axis.configure.A.28

**Test Item –** The *configure -title* function for axis of the *graph* BLT component

**Input Specification –** A string

**Output Specification –** The title is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 28**

**Purpose –** Ensure the axis configure –title command works correctly when given “Test Title”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.28.1

## Test Case 29

**Test Case ID –** RBC.graph.axis.configure.A.29

**Test Item –** The *configure -titlealternate* function for axis of the *graph* BLT component

**Input Specification –** An indicator of evaluating to either true or false

**Output Specification –** The titlealternate command is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 29**

**Purpose –** Ensure the axis configure –titlealternate command works correctly when given “1” (one)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.29.1

### Test Procedure – 2

**Test Case 29**

**Purpose –** Ensure the axis configure –titlealternate command works correctly when given “yes”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.29.2

### Test Procedure – 3

**Test Case 29**

**Purpose –** Ensure the axis configure –titlealternate command works correctly when given “true”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.29.3

### Test Procedure – 4

**Test Case 29**

**Purpose –** Ensure the axis configure –titlealternate command works correctly when given “0” (zero)

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.29.4

### Test Procedure – 5

**Test Case 29**

**Purpose –** Ensure the axis configure –titlealternate command works correctly when given “no”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.29.5

### Test Procedure – 6

**Test Case 29**

**Purpose –** Ensure the axis configure –titlealternate command works correctly when given “false”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.29.6

## Test Case 30

**Test Case ID –** RBC.graph.axis.configure.A.30

**Test Item –** The *configure -titlecolor* function for axis of the *graph* BLT component

**Input Specification –** A color

**Output Specification –** The title color is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 30**

**Purpose –** Ensure the axis configure –titlecolor command works correctly when given “blue”, a valid color

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.30.1

## Test Case 31

**Test Case ID –** RBC.graph.axis.configure.A.31

**Test Item –** The *configure -titlefont* function for axis of the *graph* BLT component

**Input Specification –** An typesetting

**Output Specification –** The font is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 30**

**Purpose –** Ensure the axis configure –titlefont command works correctly when given “\*-Helvetica-Bold-R-Normal-\*-14-140-\*”, a valid typesetting

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.31.1

## Test Case 32

**Test Case ID –** RBC.graph.axis.configure.A.32

**Test Item –** The *configure -autorange* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The autorange is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 32**

**Purpose –** Ensure the axis configure –autorange command works correctly when “13.0”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.32.1

## Test Case 33

**Test Case ID –** RBC.graph.axis.configure.A.33

**Test Item –** The *configure -borderwidth* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The borderwidth is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 33**

**Purpose –** Ensure the axis configure –borderwidth command works correctly when using the –boarderwidth flag and passing “13.0”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.33.1

### Test Procedure – 2

**Test Case 33**

**Purpose –** Ensure the axis configure –borderwidth command works correctly when using the –bd flag and passing “13.0”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.33.2

## Test Case 34

**Test Case ID –** RBC.graph.axis.configure.A.34

**Test Item –** The *configure -shiftby* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The shiftby value is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 34**

**Purpose –** Ensure the axis configure –shiftby command works correctly when given “13.0”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.34.1

## Test Case 35

**Test Case ID –** RBC.graph.axis.configure.A.35

**Test Item –** The *configure -relief* function for axis of the *graph* BLT component

**Input Specification –** A relief flag

**Output Specification –** The relief value is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 35**

**Purpose –** Ensure the axis configure –relief command works correctly when given “flat”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.35.1

### Test Procedure – 2

**Test Case 35**

**Purpose –** Ensure the axis configure –relief command works correctly when given “groove”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.35.2

### Test Procedure – 3

**Test Case 35**

**Purpose –** Ensure the axis configure –relief command works correctly when given “raised”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.35.3

### Test Procedure – 4

**Test Case 35**

**Purpose –** Ensure the axis configure –relief command works correctly when given “ridge”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.35.4

### Test Procedure – 5

**Test Case 35**

**Purpose –** Ensure the axis configure –relief command works correctly when given “solid”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.35.5

### Test Procedure – 6

**Test Case 35**

**Purpose –** Ensure the axis configure –relief command works correctly when given “sunken”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.35.6

## Test Case 37

**Test Case ID –** RBC.graph.axis.configure.A.37

**Test Item –** The *configure -background* function for axis of the *graph* BLT component

**Input Specification –** A color

**Output Specification –** The background value is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 37**

**Purpose –** Ensure the axis configure –background command works correctly when given “red”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.37.1

## Test Case 39

**Test Case ID –** RBC.graph.axis.configure.A.39

**Test Item –** The *configure -tickdivider* function for axis of the *graph* BLT component

**Input Specification –** A number

**Output Specification –** The tickdivider value is set as specified

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.axis.create.A.1

### Test Procedure – 1

**Test Case 39**

**Purpose –** Ensure the axis configure –tickdivider command works correctly when given “13.0”

**Special Requirements –** None

**TclTest –** RBC.graph.axis.configure.A.39.1

# Create

## Test Case 1

**Test Case ID –** RBC.graph.axis.create.A.1

**Test Item –** The *create* function for axis of the *graph* BLT component

**Input Specification –** A name and configuration flag

**Output Specification –** A new axis is created as specified or an error is received

**Special Procedural Requirements –** None

**Inter-case Dependencies –** None

### Test Procedure – 1

**Test Case 1**

**Purpose –** Ensure the axis create command works correctly when given “Axis1”, a unique axis name

**Special Requirements –** None

**TclTest –** RBC.graph.axis.create.A.1.1

### Test Procedure – 2

**Test Case 1**

**Purpose –** Ensure the axis create command works correctly when given “Axis1”, a unique axis name “-color black”, a valid configuration flag and color option

**Special Requirements –** None

**TclTest –** RBC.graph.axis.create.A.1.2

### Test Procedure – 3

**Test Case 1**

**Purpose –** Ensure the axis create command works correctly when given “Axis1”, an existing axis name

**Special Requirements –** None

**TclTest –** RBC.graph.axis.create.A.1.3

# Delete

## Test Case 1

**Test Case ID –** RBC.graph.axis.delete.A.1

**Test Item –** The *delete* function for axis of the *graph* BLT component

**Input Specification –** An axis name or a list of axis names

**Output Specification –** The axis is properly deleted

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.graph.axis.create.A.1

### Test Procedure – 1

**Test Case 1**

**Purpose –** Ensure the axis delete command works correctly when given “Axis1”, a user created axis

**Special Requirements –** None

**TclTest –** RBC.graph.axis.delete.A.1.1

### Test Procedure – 2

**Test Case 1**

**Purpose –** Ensure the axis delete command works correctly when given “x”, a system axis

**Special Requirements –** None

**TclTest –** RBC.graph.axis.delete.A.1.2

### Test Procedure – 3

**Test Case 1**

**Purpose –** Ensure the axis delete command works correctly when given “x y”, a list of system axes

**Special Requirements –** None

**TclTest –** RBC.graph.axis.delete.A.1.3

# Invtransform

# Limits

# Names

## Test Case 1

**Test Case ID –** RBC.graph.axis.names.A.1

**Test Item –** The *names* function for axis of the *graph* BLT component

**Input Specification –** A call to the names function

**Output Specification –** The names of all the axes are returned

**Special Procedural Requirements –** None

**Inter-case Dependencies –** RBC.graph.axis.create.A.1

### Test Procedure – 1

**Test Case 1**

**Purpose –** Ensure the axis names command works correctly when only system axes exist.

**Special Requirements –** None

**TclTest –** RBC.graph.axis.names.A.1.1

### Test Procedure – 2

**Test Case 1**

**Purpose –** Ensure the axis names command works correctly when system axes and a single user created axis exist.

**Special Requirements –** None

**TclTest –** RBC.graph.axis.names.A.1.2

### Test Procedure – 2

**Test Case 1**

**Purpose –** Ensure the axis names command works correctly after a system axis has been destroyed

**Special Requirements –** None

**TclTest –** RBC.graph.axis.names.A.1.2

# Transform

# View