



# Panther

## Quick Reference

***Prolifics.***

Release 5.51

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# About This Document

The *Quick Reference* manual contains reference information for Panther, including the properties reference for runtime properties.

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## Documentation Website

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The Panther documentation website includes manuals in HTML and PDF formats and the Java API documentation in Javadoc format. The website enables you to search the HTML files for both the manuals and the Java API.

Panther product documentation is available on the Prolifics corporate website at <http://docs.prolifics.com/panther/>.

## How to Print the Document

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## Documentation Conventions

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The following documentation conventions are used throughout this document.

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<b>Convention</b>	<b>Item</b>
Ctrl+Tab	Indicates that you must press two or more keys simultaneously. Initial capitalization indicates a physical key.
<i>italics</i>	Indicates emphasis or book titles.
UPPERCASE TEXT	Indicates Panther logical keys. <i>Example:</i> XMIT
<b>boldface text</b>	Indicates terms defined in the glossary.
monospace text	Indicates code samples, commands and their options, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples:</i> #include <smdefs.h> chmod u+w * /usr/prolifics prolifics.ini
<i>monospace italic text</i>	Identifies variables in code representing the information you supply. <i>Example:</i> String <i>expr</i>

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Convention	Item
MONOSPACE UPPERCASE TEXT	Indicates environment variables, logical operators, SQL keywords, mnemonics, or Panther constants. <i>Examples:</i> CLASSPATH OR
{ }	Indicates a set of choices in a syntax line. One of the items should be selected. The braces themselves should never be typed.
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
[ ]	Indicates optional items in a syntax line. The brackets themselves should never be typed. <i>Example:</i> formlib [-v] library-name [file-list]...
...	Indicates one of the following in a command line: <ul style="list-style-type: none"><li>■ That an argument can be repeated several times in a command line</li><li>■ That the statement omits additional optional arguments</li><li>■ That you can enter additional parameters, values, or other information</li></ul> The ellipsis itself should never be typed. <i>Example:</i> formlib [-v] library-name [file-list]...
.	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.



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- Your machine type
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

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# 1 Runtime Properties

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## Object Properties List

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This section lists the properties that are accessible at runtime. For descriptions of properties (listed alphabetically), including their values and constraints, refer to Table 1-3 on page 1-4. Properties can be categorized as follows:

- Application Properties ([page 1-105](#))
- Screen and Frameset Properties ([page 1-107](#))
- XML Properties ([page 1-110](#))
- Service Request Properties ([page 1-111](#))
- Widget Properties ([page 1-112](#))
- Splitter Properties ([page 1-120](#))
- Pane Properties ([page 1-121](#))
- ActiveX Control Properties ([page 1-121](#))
- Selection Group Properties ([page 1-122](#))
- Table View Properties ([page 1-124](#))
- Link Widget Properties ([page 1-126](#))
- Reports Properties ([page 1-127](#))

- Mail Properties ([page 1-128](#))

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## Property Descriptions

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**Table 1-1 Objects legend**

Abbreviation	Object
App	Application
Fset	Frameset
Link	Link widget
Mail	Mail object
Menu	Menu/toolbar
Pane	Pane
Rpt	Report
Scr	Screen
Sel	Selection group
Spl	Splitter

**Table 1-1 Objects legend**

Abbreviation	Object
SrvCom	Service component
SrvReq	Service request
Sync	Synchronized scrolling group
TV	Table view widget
Wdg	Widget

**Table 1-2 Constraints Legend**

Constraint	Description
RT	Runtime only; not accessible in the editor
RO	Read only; cannot be changed
Svr	Server only

**Table 1-2 Constraints Legend**

<b>Constraint</b>	<b>Description</b>
ClntAgt	Client agent only (client or server that has made a service call)
JN	Applies only to JetNet applications
Tux	Applies only to Oracle Tuxedo applications
WAS	Applies only to Panther/WebSphere applications
CM	Applies only to character-mode applications
GUI	Applies only to GUI applications
RT	Runtime only; not accessible in the editor
RO	Read only; cannot be changed
Svr	Server only

**Table 1-3 Property definitions, valid values, and constraints**

Property	Description	Object	Value	Constraint
active	Widget state: active, so it can respond to user interaction, or inactive.	Wdg	PV_YES PV_NO	<code>widget_type</code> = PV_DYNAMIC_LABEL   PV_PUSH_BUTTON   PV_RADIO_BUTTON   PV_CHECK_BOX   PV_TOGGLE_BUTTON
active_pixmap	Name of image file to display on widget.	Wdg	str	GUI, Web, <code>widget_type</code> = PV_PUSH_BUTTON   PV_RADIO_BUTTON   PV_CHECK_BOX   PV_TOGGLE_BUTTON   PV_STATIC_LABEL   PV_DYNAMIC_LABEL
agent_type	Three-tier client, server, or two-tier client.	App	PV_CLIENT PV_SERVER PV_STANDALONE	RT, RO
all_protect	Set or unset all protection properties: <code>clearing_protect</code> , <code>input_protection</code> , <code>focus_protection</code> , <code>no_validation</code> .	Wdg	PV_YES PV_NO	RT If these properties have been set individually to different settings, <code>all_protect</code> returns PV_NO. Changing all properties to PV_NO with <code>all_protect</code> only occurs if they were previously all set to PV_YES.

Property	Description	Object	Value	Constraint
alt_next_tab_stop	Name of widget or group that should be accessed if the object named in <code>next_tab_stop</code> does not exist at runtime.	Wdg SelGrp	str	No Web, <code>next_tab_stop = widgetName</code>
alt_prev_tab_stop	Name of widget or group that should be accessed if the object named in <code>prev_tab_stop</code> does not exist at runtime.	Wdg SelGrp	str	No Web, <code>prev_tab_stop = widgetName</code>
alt_scroll_func	Name of function to invoke custom scroll function for an array.	Wdg	str	
application_font	Change Application Font from the [Prolifics Fonts] section of the Windows initialization file.	App	str	Windows
area	Name of report's layout area. (C constant <code>PR_RW_ACTION_STRING</code> )	Wdg (Rpt)	str	
argc	Number of program arguments not including internal arguments like <code>-ini</code> and <code>-debug</code> .	App	int	prorun and prodev
argv[ int ]	Program arguments; <code>argv[1]</code> is the program name.	App	str	prorun and prodev

## Property Descriptions

Property	Description	Object	Value	Constraint
armed_pixmap	Name of image file to display on widget when it is armed (pushed, selected, or checked).	Wdg	str	GUI, Web, <a href="#">active_pixmap</a> =filename and <a href="#">widget_type</a> = PV_PUSH_BUTTON   PV_RADIO_BUTTON   PV_CHECK_BOX   PV_TOGGLE_BUTTON
array_size	Wdg: Number of visible onscreen rows	Wdg	int	<a href="#">widget_type</a> = PV_DYNAMIC_LABEL   PV_SINGLE_LINE_TEXT   PV_PUSH_BUTTON   PV_TOGGLE_BUTTON   PV_RADIO_BUTTON   PV_CHECK_BOX See <a href="#">onscreen_rows</a> property
	Sync: Number of onscreen rows for synchronized scrolling group.	Sync	int	
attributes	HTML attributes to add to the <INPUT> tag.	Wdg	str	Web
auto_expand	Whether or not grid widget expands to include all rows.	Wdg	PV_YES PV_NO	Web, <a href="#">widget_type</a> = PV_GRID_FRAME
auto_help	Whether or not a help screen displays on widget entry or by user request (choose Help).	Wdg	PV_YES PV_NO	No Web, <a href="#">help_screen</a> = screenName



Property	Description	Object	Value	Constraint
auto_horiz_resize	Whether or not widget resizes horizontally when screen ( <a href="#">resizeable</a> = PV_YES) is resized at runtime.	Wdg	PV_YES PV_NO	GUI, <a href="#">widget_type</a> = PV_LIST_BOX   PV_GRID_FRAME   PV_SINGLE_LINE_TEXT   PV_MULTILINE_TEXT   PV_HORIZONTAL_LINE   PV_GRAPH
auto_item	Whether or not a selection screen is displayed on widget entry or by user request (press ITSEL key or choose Help).	Wdg	PV_YES PV_NO	No Web, <a href="#">selection_screen</a> = screenName
auto_vert_resize	Whether or not widget resizes vertically when screen ( <a href="#">resizeable</a> = PV_YES) is resized at runtime.	Wdg	PV_YES PV_NO	GUI, <a href="#">widget_type</a> = PV_LIST_BOX   PV_MULTILINE_TEXT   PV_GRID_FRAME   PV_VERTICAL_LINE   PV_GRAPH
auto_resize_ex_paths	When set to PV_YES, autoresize will allow widgets of different heights to resize together when they are on the same path. See <a href="#">General Rules for Resizing at Runtime</a> for more information about how autoresize works.	App	PV_YES PV_NO	GUI New in Panther 5.51.

## Property Descriptions

Property	Description	Object	Value	Constraint
<code>auto_resize_no_touch</code>	When set to PV_YES, changing the height or width of a screen programmatically will cause automatically resizable widgets on that screen to get resized.	App	PV_YES PV_NO	GUI New in Panther 5.51.
<code>autotab</code>	Force focus to move to next widget when user enters the required data or makes a selection.	Wdg	PV_YES PV_NO	<code>widget_type =</code> <code>PV_SINGLE_LINE_TEXT</code> <code>  PV_MULTILINE_TEXT  </code> <code>PV_OPTION_MENU  </code> <code>PV_COMBO_BOX  </code> <code>PV_GROUP</code>
<code>bar_chart_type</code>	Type of bar chart graph.	Wdg	PV_ABSOLUTE PV_STACK PV_STEP PV_100 V_OVERLAP	GUI, Web, <code>chart_type</code> = PV_BAR
<code>bar_style</code>	Graphical style for displaying data values in bar chart graph.	Wdg	PV_BAR, PV_LINE, PV_CURVE, PV_POINT, PV_TREND, PV_AREA	GUI, Web, <code>chart_type</code> = PV_BAR and <code>y_value_source[int]</code> = str
<code>bg_color_name</code>	Background extended color (platform-specific) name.	Scr Wdg	str; Can be name, RGB value, or alias name defined in cmap file.	<code>bg_color_type =</code> PV_EXTENDED

Property	Description	Object	Value	Constraint
bg_color_num	Numeric designation of background color corresponding to a Panther basic color.	Scr	int; corresponds to Panther basic color: B_BLACK, B_BLUE, B_GREEN, B_CYAN, B_RED, B_MAGENTA, B_YELLOW, B_WHITE	bg_color_type = PV_BASIC
bg_color_type	Background color type: basic, GUI-specific, or scheme as defined in cmap file.	Scr Wdg	PV_BASIC PV_EXTENDED PV_SCHEME	
bi_status[int]	Get before-image status of specified row(s). Can indicate if row was fetched from database, if row was empty (indicating occurrence was inserted by user), or if row was edited.	TV	PV_BI_FETCHED PV_BI_EMPTY PV_BI_CHANGED	RT, RO
bi_string	Widget's before-image occurrence. Specify for a widget occurrence, i.e., widget[occ]->bi_string.	Wdg	str	RT, RO
blink	Object's blink attribute. For widget, applies to text or <a href="#">label</a> .	Scr Wdg	PV_YES, PV_NO	CM, (Scr) border_fg_color_type = PV_BASIC (Wdg) bg_color_type = PV_BASIC

## Property Descriptions

Property	Description	Object	Value	Constraint
<code>body_attributes</code>	Modify HTML by specifying HTML attributes to add to the <code>&lt;BODY&gt;</code> tag.	Scr SrvCom	<code>str</code>	Web
<code>bold</code>	Bold font style attribute.	App Scr Wdg	<code>PV_DEFAULT</code> <code>PV_YES</code> <code>PV_NO</code>	Has no effect if <code>font_name</code> does not have a bold qualifier or if it is only available in a bold style.
<code>border</code>	Whether or not object has border. For Web screens, <code>PV_NO</code> allows widgets to position next to the browser window's borders (see also <code>title_bar</code> and <code>system_menu</code> properties).	Scr Wdg	<code>PV_YES</code> <code>PV_NO</code>	CM, Motif, Web only, <code>widget_type</code> = <code>PV_LIST_BOX</code>   <code>PV_MULTILINE_TEXT</code>
<code>border_bg_color_name</code>	Background color name (platform-specific) for screen border.	Scr	<code>str</code>	CM, <code>border_bg_color_type</code> = <code>PV_EXTENDED</code>
<code>border_bg_color_num</code>	Panther basic background color for screen border.	Scr	<code>int</code> ; corresponds to Panther basic color	CM, <code>border_bg_color_type</code> = <code>PV_BASIC</code>
<code>border_bg_color_type</code>	Background color type: Panther basic, GUI-specific, or scheme (defined in <code>cmap</code> file).	Scr	<code>PV_BASIC</code> <code>PV_EXTENDED</code> <code>PV_SCHEME</code>	CM, <code>border</code> = <code>PV_YES</code>
<code>border_fg_color_name</code>	Foreground color name (platform-specific) for screen border.	Scr	<code>str</code>	CM, <code>border_fg_color_type</code> = <code>PV_EXTENDED</code>

### 1-10 Runtime Properties

Property	Description	Object	Value	Constraint
<code>border_fg_color_num</code>	Panther basic foreground color for screen border.	Scr	int; corresponds to Panther basic color	CM, <code>border_fg_color_type</code> = PV_BASIC
<code>border_fg_color_type</code>	Foreground color type for screen border: Panther basic, GUI-specific, or scheme (defined in cmap file).	Scr	PV_BASIC PV_EXTENDED PV_SCHEME	CM, <code>border</code> = PV_YES
<code>border_style</code>	Screen border style.	Scr	PV_STYLE_0 ... PV_STYLE_9; corresponds to Panther line styles.	CM, <code>border</code> = PV_YES
<code>break_on</code>	Name of report's break field (begin new grouping when this field changes). (C constant PR_RW_GROUP_FIELD)	Rpt	str	
<code>c_type</code>	Object's data type for use by database drivers.	SelGrp Wdg	PV_DEFAULT PV_OMIT PV_CHAR_STRING PV_INT PV_UNSIGNED_INT PV_SHORT_INT PV_LONG_INT PV_FLOAT PV_DOUBLE PV_ZONED_DEC PV_PACKED_DEC PV_HEX_DEC	

## Property Descriptions

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Property	Description	Object	Value	Constraint
calculation	Math expressions, separated by a semicolon.	Wdg	str	No Web
call_client	Unique client ID associated with service request; accessible from servers, and only for service call made directly by client.	SrvReq	str	JN/Tux Svr; RO
call_in_transaction	Whether or not service is within a transaction; accessible from servers, and only for service call made directly by a client.	SrvReq	PV_YES PV_NO	Tux Svr; RO
call_initial_text	Command text which initiated this service request.	SrvReq	str	JN/Tux ClntAgnt; RO
call_no_reply	Whether or not client expects a reply; accessible from servers, and only for service call made directly by a client.	SrvReq	PV_YES PV_NO	JN/Tux Svr; RO
call_origin	Screen name from which request was initiated.	SrvReq	str	JN/Tux ClntAgnt; RO
call_priority	Priority of service request; accessible from servers, and only for service call made directly by a client.	SrvReq	int (1 .. 100); higher value has increased priority.	JN/Tux Svr; RO

Property	Description	Object	Value	Constraint
<code>call_security_key</code>	Client authentication key if authentication server is used in the application; accessible from servers, and only for service call made directly by a client.	SrvReq	long; higher value has increased priority.	Tux Svr; RO
<code>call_svc_alias</code>	Service alias associated with request.	SrvReq	str	JN/Tux; RO
<code>call_svc_name</code>	Service name associated with request.	SrvReq	str	JN/Tux; RO
<code>call_text</code>	Command text of most recent middleware command that operated on this request.	SrvReq	str; initial value is same as <code>call_initial_text</code> property	JN/Tux ClntAgnt; RO
<code>card</code>	Identify widget's tab card, if widget is in a tab deck.	Wdg	objid; if widget is not in a tab deck, returns " ".	Windows, Motif; RT, RO
<code>card_entry_func</code>	Name of function to invoke when a tab card gains focus.	Wdg	str	Windows, Motif; <code>widget_type = PV_CARD</code>
<code>card_exit_func</code>	Name of function to invoke when a tab card loses focus.	Wdg	str	Windows, Motif; <code>widget_type = PV_CARD</code>
<code>card_number</code>	Numeric sequence of tab card within a tab deck from left to right.	Wdg	int; 1 is leftmost card.	Windows, Motif; <code>widget_type = PV_CARD</code>

## Property Descriptions

Property	Description	Object	Value	Constraint
chart_3d	Whether or not a graph displays in 3D perspective. (C constant PR_3D)	Wdg	PV_YES PV_NO	GUI, Web, widget_type = PV_GRAPH
chart_type	Graph style.	Wdg	PV_PIE PV_BAR PV_XY_PLOT PV_HIGH_LOW	GUI, Web, widget_type = PV_GRAPH
child	Name of child table view of link relationship.	Link	str	Writable only if TM transaction is not in progress
child[ int ]	Name of child table view in specified table view and corresponding to specified occurrence.	TV	str	RT, RO
circular	Whether circular scrolling is in effect in an arrayed widget, i.e., first to last occurrence and vise versa.	Wdg	PV_YES PV_NO	scrolling = PV_YES
class	Transaction class name to which widget belongs; defines widget appearance and behavior in specific transaction modes.	Wdg	str; as defined in styles.sty. Can be -none-, -default- or empty. An empty string indicates that the property is set to -default-.	



Property	Description	Object	Value	Constraint
clearing_protect	Prevent data from being cleared (PV_YES) or allow data (PV_NO) to be cleared.	Wdg	PV_YES PV_NO	<code>widget_type =</code> PV_SINGLE_LINE_TEXT   PV_MULTILINE_TEXT   PV_COMBO_BOX   PV_SCALE   PV_LIST_BOX
clock_type	Whether date/time-specific widget displays 12-hour or 24-hour format.	Wdg	PV_12_HOUR PV_24_HOUR	<code>data_formatting =</code> PV_DATE_TIME
close_item	Availability of Close item on system menu.	Scr	PV_YES PV_NO	GUI, Web, <code>system_menu =</code> PV_YES
clsid	Unique identifier for an ActiveX control.	Wdg	str	Web, Windows, <code>widget_type =</code> PV_ACTIVEX
codebase	URL location of the file which downloads an ActiveX control.	Wdg	str	Web, <code>widget_type =</code> PV_ACTIVEX

## Property Descriptions

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Property	Description	Object	Value	Constraint
codeset	Codeset to use when exporting to XML. Also used for generating the encoding attribute when generating HTML. Also used for converting to/from Unicode for Panther's Java API's, when <a href="#">java_use_codeset</a> is set to PV_YES.	App	PV_CP437, PV_CP775, PV_CP850, PV_CP860, PV_CP863, PV_CP865, PV_DEFAULT, PV_ISO_8859_1, PV_ISO_8859_2, PV_ISO_8859_3, PV_ISO_8859_4, PV_ISO_8859_5, PV_ISO_8859_6, PV_ISO_8859_7, PV_ISO_8859_8, PV_ISO_8859_9, PV_ISO_8859_10, PV_ISO_8859_13, PV_ISO_8859_14, PV_ISO_8859_15, PV_ROMAN8, PV_UTF8, PV_WINDOWS_874, PV_WINDOWS_1250, PV_WINDOWS_1251, PV_WINDOWS_1252, PV_WINDOWS_1253, PV_WINDOWS_1254, PV_WINDOWS_1255, PV_WINDOWS_1256, PV_WINDOWS_1257, PV_WINDOWS_1258	

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Property	Description	Object	Value	Constraint
<code>column_click_action</code>	Action to occur when the user clicks on the grid column title.	Wdg	PV_NONE PV_SORT PV_CUSTOM	Widget must be in a grid widget
<code>column_click_func</code>	Name of custom function to invoke when the user clicks on the grid column title.	Wdg	str	Widget must be in a grid widget; <code>column_click_action</code> = PV_CUSTOM
<code>column_length</code>	Database column length as defined in database.	Wdg	str	RO, currently unused by SQL generator
<code>column_move_resize</code>	Ability to move and resize columns in grid widget at runtime.	Wdg	PV_YES PV_NO	<code>widget_type</code> = PV_GRID_FRAME
<code>column_name</code>	Name of database column from which widget was derived.	Wdg	str	Writable only if the widget is not part of an existing transaction.
<code>column_precision</code>	Precision (if numeric) of database column as defined in database.	Wdg	str	RO, currently unused by SQL generator
<code>column_scale</code>	Scale (if numeric) of database column as defined in database.	Wdg	str	RO, currently unused by SQL generator
<code>column_separators</code>	Whether vertical lines should display between grid member columns.	Wdg	PV_YES PV_NO	<code>widget_type</code> = PV_GRID_FRAME

## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>column_title</code>	Title to display in grid widget.	Wdg	<code>str</code>	
<code>column_titles</code>	Type of column heading to display at top of grid widget; <code>PV_PER_COLUMN</code> uses content of <code>column_title</code> property.	Wdg	<code>PV_NONE</code> <code>PV_AUTO_NUMBER</code> <code>PV_AUTO_LETTER</code> <code>PV_PER_COLUMN</code>	<code>widget_type = PV_GRID_FRAME</code>
<code>column_type</code>	Column data type as defined in the database.	Wdg	<code>str</code>	RO, currently unused by SQL generator
<code>columns[int]</code>	List of database columns that are in database table and associated with table view. Used as reference for other properties.	TV	<code>str</code>	Writable only if table view is not part of TM transaction in progress
<code>comments</code>	Enter your own comments.	Scr Wdg	<code>str</code>	
<code>conceal_tabs</code>	Whether card tabs are visible; if <code>PV_YES</code> , user cannot raise cards to top of deck.	Wdg	<code>PV_YES</code> <code>PV_NO</code>	<code>widget_type = PV_DECK</code>
<code>conn_pool_size</code>	Maximum number of database connections in the connection pool.	App	<code>int</code>	RT; WAS, set on application server, not in method call from client
<code>continue_func_name</code>	Special function to be called for CONTINUE operations.	TV	<code>str</code>	<code>select_handling = PV_HANDLING_FUNC</code>

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Property	Description	Object	Value	Constraint
control_name	Name of the ActiveX control.	Wdg	str	Web, Windows, <code>widget_type =</code> <code>PV_ACTIVEX</code>
control_string	Control string to be executed when widget is activated.	Wdg	str	<code>widget_type =</code> <code>PV_PUSH_BUTTON  </code> <code>PV_LIST_BOX</code> and <code>listbox_type =</code> <code>PV_ACTION</code>
control_string[ <i>logkey</i> ]	Assign behavior to specified logical key.	App Scr	str	
convert_case	Text case conversion.	Wdg	<code>PV_MIXED</code> <code>PV_UPPER</code> <code>PV_LOWER</code>	
count_result	Number of rows that will be fetched by <code>SELECT</code> . Refer to <code>count_select</code> .	TV	int	RT
count_select	Whether transaction manager counts the number of rows in result set prior to fetching data for <code>SELECT</code> .	TV	<code>PV_YES</code> <code>PV_NO</code>	
count_threshold	Maximum number of rows allowed in result set. If result set exceeds the value, check <code>count_warning</code> and issue prompt before fetching data.	TV	int	<code>count_select =</code> <code>PV_YES</code> , <code>count_warning =</code> <code>PV_YES</code>

## Property Descriptions

Property	Description	Object	Value	Constraint
count_warning	Whether or not to issue warning for large result set. PV_YES issues warning if number of rows in result set exceeds <code>count_threshold</code> value.	TV	PV_YES PV_NO	<code>count_select</code> = PV_YES
currency_symbol	One- to five-character currency symbol for monetary data.	Wdg	str	<code>numeric_type</code> = PV_CUSTOM
current_component_system	Which component system is currently in use: COM or EJB.	App	PV_SERVER_COM PV_SERVER_EJB PV_SERVER_JAVA	RT, COM, WebSphere
current_offset	Horizontal offset in a shifting field. Valid for text input widgets only.	Wdg	PV_YES PV_NO	RT, <code>widget_type</code> = PV_SINGLE_LINE_TEXT   PV_MULTILINE_TEXT   PV_COMBO_BOX
cursor_and_using	Cursor name to use for fetching data for a report detail node. (Constant <code>PR_RW_CURSOR_AND_USING</code> )	Wdg (Reports)	str	Data Source = Predefined Cursor
custom_format	Date format using combinations of pre-defined date/time variables and punctuation.	Wdg	str	<code>date_format</code> = PV_CUSTOM
customer_drawn	Whether or not a drawing function is installed.	Wdg	PV_YES PV_NO	GUI; <code>widget_type</code> = PV_PUSH_BUTTON   PV_TOGGLE_BUTTON   PV_DYNAMIC_LABEL

Property	Description	Object	Value	Constraint
<code>data_basic_color</code>	Color for plotting graphical data.	Wdg	int; corresponds to Panther basic color	GUI, Web, <code>chart_type</code> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW and <code>y_value_source[int]</code> = str
<code>data_formatting</code>	Data format: date/time, numeric, or none.	Wdg	PV_NONE PV_DATE_TIME PV_NUMERIC	
<code>data_value_location</code>	Where data values display in relation to graphical data.	Wdg	PV_NONE PV_IN PV_OUT	GUI, Web, <code>chart_type</code> = PV_BAR and <code>y_value_source[int]</code> = str
<code>date_format</code>	Date/time format using variables defined in Panther message file.	Wdg	PV_DEFAULT_0 ... PV_DEFAULT_9 PV_CUSTOM	<code>data_formatting</code> = PV_DATE_TIME
<code>decimal_places</code>	Number of decimal places.	Wdg	int	<code>widget_type</code> = PV_SCALE
<code>decimal_symbol</code>	Radix symbol for a custom numeric format.	Wdg	PV_DOTPV_COMMA	<code>numeric_type</code> = PV_CUSTOM
<code>deck</code>	Identify tab deck to which tab card is a member.	Wdg	objid	Windows, Motif; RT, RO, <code>widget_type</code> = PV_CARD

## Property Descriptions

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Property	Description	Object	Value	Constraint
default_cancel	Push button default behavior.	Wdg	PV_NEITHER PV_BOTH PV_DEFAULT_BUTTON PV_CANCEL_BUTTON	No Web; <code>widget_type = PV_PUSH_BUTTON</code>
default_link	URL destination of hyperlink.	Wdg	str	Web; <code>widget_type = PV_DYNAMIC_LABEL   PV_GRAPH</code>
default_row_margin	Amount of space above and below text in grid row if <code>row_margin</code> is not set for the grid widget.	App	int; PV_DEFAULT	GUI; <code>widget_type = PV_GRID_FRAME</code>
default_tran	Name of default transaction; set even if transaction is not open.	Scr	str	RT, RO
del_func_name	Special function to be called for DELETE operations.	TV	str	<code>delete_handling = PV_HANDLING_FUNC</code>
delete_handling	Method for handling DELETE operations.	TV	PV_HANDLING_SQL PV_HANDLING_FUNC PV_HANDLING_NOTHING	
delete_order	Which table view (parent or child) participates in DELETE statement first.	Link	PV_CHILD_FIRST PV_PARENT_FIRST	Writable only if link's table views are not part of TM transaction in progress

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Property	Description	Object	Value	Constraint
<code>delete_service</code>	Specifies a service to implement a DELETE operation that removes information from database tables	TV	str	JN, Tux
<code>depth</code>	Depth of 3D object in a graph widget, measured as percentage of widget size.	Wdg	str (0.0 .. 100.0)	GUI, Web, <code>chart_3d</code> = PV_YES
<code>devserv_id</code>	Name of file access server. Defaults to name of host on which server resides.	App	str	RO
<code>di_string[int]</code>	Identifies deleted rows in sequence; i.e., <code>di_string[i]</code> ; <code>i</code> from 1 to <code>widget-&gt;num_del_images</code> .	Wdg	str	RT, RO
<code>dialog</code>	Defines screen as modal or non-modal window. PV_YES removes Resize, Maximize, and Minimize options from system menu (prevents resize, maximize, or minimize).	Scr	PV_YES PV_NO	GUI, RO
<code>dim</code>	Low intensity display of widget's text or <code>label</code> .	Scr Wdg	PV_YES PV_NO	CM, Scr: <code>border_fg_color_type</code> = PV_BASIC Wdg: <code>fg_color_type</code> = PV_BASIC

## Property Descriptions

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Property	Description	Object	Value	Constraint
display_codepage	Codepage Windows should use to display characters.	App	Valid codepage codes are listed for the <a href="#">codeset</a> property.	GUI Windows New in Panther 5.50.
display_window	Target window in which screen is displayed.	Scr	str	Web
distinct	Whether or not duplicate rows are included or omitted from query results.	TV	PV_YES PV_NO	
double_click	Control string executed when user double-clicks on widget.	Wdg	str	No Web, <a href="#">widget_type</a> = PV_DYNAMIC_LABEL   PV_SINGLE_LINE_TEXT   PV_MULTILINE_TEXT   PV_LIST_BOX   PV_COMBO_BOX
drop_down_data[ <i>int</i> ]	Data associated with option menu/combo box.	Wdg	str	<a href="#">widget_type</a> = PV_OPTION_MENU   PV_COMBO_BOX <a href="#">drop_down_source</a> = PV_CONSTANT_DATA
drop_down_screen	Name of screen containing data that will populate option menu/combo box.	Wdg	str	<a href="#">widget_type</a> = PV_OPTION_MENU   PV_COMBO_BOX <a href="#">drop_down_source</a> = PV_EXTERNAL_SCREEN

Property	Description	Object	Value	Constraint
drop_down_size	Number of visible elements in option menu/combo box drop down list.	Wdg	int	<code>widget_type = PV_OPTION_MENU   PV_COMBO_BOX</code>
drop_down_source	Data source for populating option menu/combo box: constant (static data) or an external screen.	Wdg	PV_CONSTANT_DATA PV_EXTERNAL_SCREEN	<code>widget_type = PV_OPTION_MENU   PV_COMBO_BOX</code>
drop_down_trim_empty	If PV_YES, trailing empty rows in option menu/combo box drop down list will be removed	App	PV_YES PV_NO	GUI Windows
edit_mask	Display and data characters required to define the mask; filters data on user input.	Wdg	str	<code>keystroke_filter = PV_EDIT_MASK</code>
empty_format	Whether or not a format should display when the widget has no data.	Wdg	PV_YES PV_NO	<code>data_formatting = PV_NUMERIC</code> ; to apply a format when widget is empty, <code>zero_format</code> must be PV_YES.
end_column	End-column assignment for box widget.	Wdg	int	<code>widget_type = PV_BOX</code>
end_row	End-row assignment for box widget.	Wdg	int	<code>widget_type = PV_BOX</code>
endsession	Function to call during shutdown processing.	App	str PV_NULL	Windows

## Property Descriptions

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Property	Description	Object	Value	Constraint
entry_function	Function to call when object gains focus (i.e., when a user tabs or clicks into it).	Scr Wdg SelGrp	str	
exit_function	Function to call when object loses focus (i.e., when a user tabs or clicks into it).	Scr Wdg SelGrp	str	
export_to_html	Whether or not widget's value is available to JavaScript operations.	Wdg	PV_YES PV_NO	Web
expose_function	Name of function to invoke when a tab card becomes the top card on the deck or when the screen opens.	Wdg	str	Windows, Motif; widget_type = PV_CARD
external_help_tag	Context identifying tag used to display corresponding help topic. Identifier is passed to your external help-processing event function.	Scr Wdg	str	No Web
extra_line_size_check	When set, page length calculations are changed. This can change the placement of page breaks for reports that have long pixmaps.	App	PV_YES PV_NO	New in Panther 5.50

Property	Description	Object	Value	Constraint
<code>fetch_directions</code>	Transaction manager's scrolling method for records that can be scrolled up and down: up/down in all modes, default (down only in all modes), down only in all modes, and up/down in view mode.	Scr TV	PV_CONT_ALWAYS PV_CONT_DEFAULT PV_CONT_NEVER PV_CONT_NONE PV_CONT_VIEW_ONLY	2-tier GUI only
<code>fg_color_name</code>	GUI-specific foreground color.	Wdg	str; name, RGB value, or alias name (as defined in cmap file).	<code>fg_color_type</code> = PV_EXTENDED
<code>fg_color_num</code>	Panther basic color specified for foreground color.	Wdg	BLACK, BLUE, GREEN, CYAN, RED, MAGENTA, YELLOW, WHITE, HIGHLIGHT   BLACK, HIGHLIGHT   BLUE, HIGHLIGHT   GREEN, HIGHLIGHT   CYAN, HIGHLIGHT   RED, HIGHLIGHT   MAGENTA, HIGHLIGHT   YELLOW, HIGHLIGHT   WHITE	<code>fg_color_type</code> = PV_BASIC
<code>fg_color_type</code>	Foreground color type: Panther basic, GUI-specific color, or scheme color as defined in cmap file.	Wdg	PV_BASIC PV_EXTENDED PV_SCHEME	

## Property Descriptions

Property	Description	Object	Value	Constraint
<code>field[int]</code>	Identifies widgets (from 1 to <code>num_fields</code> ) in specified table view.	TV	<code>objid</code> ; widget name or field number if unnamed.	RT, RO
<code>field_below[int]</code>	App: Identifies widgets (from specified number) participating in current transaction. TV: Identifies widgets (from 1 to <code>num_fields_below</code> ) in specified server view and in its child table views.	App TV	<code>objid</code> ; widget name or field number if unnamed.	RT, RO
<code>fill_character</code>	Character, such as asterisk, to fill leading or trailing blanks. Character pads field to its maximum length.	Wdg	<code>str</code>	<code>data_formatting = PV_NUMERIC</code>
<code>first_occurrence</code>	First visible occurrence in an array.	Wdg	<code>int</code>	RT
<code>fldnum</code>	Field number of the widget where the cursor is currently positioned.	Scr Wdg	<code>int</code>	RT, RO

Property	Description	Object	Value	Constraint
focus_protection	Widget focus protection. PV_YES for grid widget prevents focus on grid members regardless of individual settings; PV_NO honors grid members' focus protection settings. In Web, single line and multiline text widgets having PV_YES value display in bold text.	Wdg	PV_YES PV_NO	
font_name	Font name specification: Panther-specific, locally installed, or graph-specific if object is graph widget.	App Scr Wdg	str	GUI
form_attributes	HTML attributes for the <FORM> tag that will modify Panther-generated HTML.	Scr SrvCom	str	Web
framset	Containing frameset	SCR Fset Spl Pane	name of containing frameset in JPL; otherwise, the frameset's object ID	
frequency	How often, in seconds, system date/time is updated.	Wdg	int	<code>system_update = PV_YES</code>
frozen_columns	Number of columns that remain stationary when user tabs or shifts columns horizontally.	Wdg	int	<code>widget_type = PV_GRID_FRAME</code>

## Property Descriptions

Property	Description	Object	Value	Constraint
function	Transaction manager event function to invoke for this table view in order to change processing associated with transaction event.	TV	str	
function_call	Function call text for a report. (C constant PR_RW_ACTION_STRING)	Wdg (Reports)	str	
grid	Identifies grid widget to which specified widget belongs.	Wdg	str; name of grid widget if the object is a grid member; empty string if object is not a grid member or is a grid widget; object ID (@id()) if grid widget is unnamed.	
grid_column	Widget's column position in a grid widget.	Wdg	int	grid != ""
grid_current_occ	Grid widget's current (or selected) occurrence.	Wdg	int	RT, RO
grid_height	Height of grid cell in screen's positioning grid; measured in grid units (g) by default, characters (c), inches (in), millimeters (mm), or pixels (p).	Scr	str; pixel values must be whole numbers; otherwise, fractional values are permitted.	No Web, In CM, grid dimensions are fixed—each character occupies one cell



## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>grid_width</code>	Width of grid cell in screen's positioning grid, measured in grid units ( <code>g</code> ) by default, characters ( <code>c</code> ), inches ( <code>in</code> ), millimeters ( <code>mm</code> ), or pixels ( <code>p</code> ).	<code>Scr</code>	<code>str</code> ; pixel values must be whole numbers; otherwise, fractional values are permitted.	No <code>Web</code> , In <code>CM</code> , grid dimensions are fixed—each character occupies one cell
<code>group</code>	Identifies group to which widget is a member.	<code>Wdg</code>	<code>str</code> ; name of the group if named; empty string if the object is not a group member; object ID ( <code>@id( )</code> ) if the group is unnamed.	<code>RT</code>
<code>group_by</code>	Names of the widgets whose values are used to group data in <code>SELECT</code> statement.	<code>Wdg</code>	<code>str</code>	
<code>having</code>	Additional search condition for having-condition of <code>SELECT</code> statement.	<code>Wdg</code>	<code>str</code>	
<code>hdl_advertise</code>	Name of current <code>advertise</code> event handler. Empty string assignment reinstates default built-in <code>advertise</code> event handler.	<code>App</code>	<code>str</code>	<code>JN/Tux</code> only; <code>RT</code>

## Property Descriptions

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Property	Description	Object	Value	Constraint
hdl_exception	Name of current <a href="#">exception</a> event handler. Empty string assignment reinstates default built-in <a href="#">exception</a> event handler.	App	str	JN/Tux only; RT
hdl_jif_changed	Name of current <a href="#">jif_changed</a> event handler. Empty string assignment reinstates default built-in <a href="#">jif_changed</a> handler.	App	str	JN/Tux only; RT
hdl_message	Name of current <a href="#">message</a> event handler. Empty string assignment reinstates built-in default <a href="#">message</a> event handler.	App	str	JN/Tux only; RT
hdl_post_request	Name of current <a href="#">post_request</a> event handler. Empty string assignment reinstates built-in default <a href="#">post_request</a> handler.	App	str	JN/Tux only; RT
hdl_post_service	Name of current <a href="#">post_service</a> event handler. Empty string assignment reinstates built-in default <a href="#">post_service</a> handler.	App	str	JN/Tux only; RT

## Property Descriptions

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Property	Description	Object	Value	Constraint
hdl_pre_request	Name of current <code>pre_request</code> event handler. Empty string assignment reinstates built-in default <code>pre_request</code> handler.	App	str	JN/Tux only; RT
hdl_pre_service	Name of current <code>pre_service</code> event handler. Empty string assignment reinstates built-in default <code>pre_service</code> handler.	App	str	JN/Tux only; RT
hdl_request_received	Name of current <code>request_received</code> event handler. Empty string assignment reinstates built-in default <code>request_received</code> handler.	App	str	JN/Tux only; RT
hdl_server_exit	Name of current <code>server_exit</code> event handler. Empty string assignment reinstates built-in default <code>server_exit</code> handler.	App	str	JN/Tux only; RT
hdl_unadvertise	Name of current <code>unadvertise</code> event handler. Empty string assignment reinstates built-in default <code>unadvertise</code> handler.	App	str	JN/Tux only; RT

## Property Descriptions

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Property	Description	Object	Value	Constraint
hdl_unload	Name of current <code>unload</code> event handler. Empty string assignment reinstates built-in default <code>unload</code> event handler.	App	str	JN/Tux only; RT
head_markup	HTML markup to modify <code>&lt;HEAD&gt;</code> tag in Panther-generated HTML.	Scr SrvCom	str	Web
height	Vertical size of object.	Scr SrvCom Wdg	str	No Web
help_screen	Name of help screen; invoked if help is requested when screen or widget has focus.	Scr Wdg	str	No Web
hidden	Whether or not widget is hidden. In a tab card, the card's tab is affected. In Web application, HTML tags are not generated for hidden widgets (values <code>PV_YES</code> or <code>PV_ALWAYS</code> ). To generate HTML tag for hidden widgets, set <code>export_to_html = PV_YES</code> .	Wdg	<code>PV_YES</code> <code>PV_NO</code> <code>PV_ALWAYS</code>	

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## Property Descriptions

Property	Description	Object	Value	Constraint
hide_function	Name of function to invoke when the topmost tab card loses its place because another tab card has gained focus or when the screen closes.	Wdg	str	Windows, Motif, <code>widget_type = PV_CARD</code>
hook_app_focus_change	Whether to call screen exit and screen entry when application loses and gains focus.	App	PV_YES PV_NO	Windows, Panther 5.20 and later
hor_scroll_bar	Horizontal scroll bar assignment for shifting widget.	Wdg	PV_YES PV_NO	<code>word_wrap = PV_NO</code> and <code>max_data_length &gt; length</code>
horiz_anchor	Horizontal anchor point.	Wdg	PV_LEFT PV_RIGHT PV_CENTER	GUI, Web. For box widget, <code>position_region = PV_YES</code>
horiz_max_size	Widget's maximum width if screen is resized at runtime.	Wdg	str; grid units (g) by default, characters (c), inches (in), millimeters (mm), or pixels (p).	GUI, <code>auto_horiz_resize = PV_YES</code>
horiz_min_size	Widget's minimum width if screen is resized at runtime.	Wdg	str; grid units (g) by default, characters (c), inches (in), millimeters (mm), or pixels (p).	GUI, <code>auto_horiz_resize = PV_YES</code>
horiz_rotation	Graph's horizontal rotation (about the vertical axis), as measured in degrees.	Wdg	str (0 .. 90)	GUI, Web, <code>chart_type = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW</code> and <code>chart_3d = PV_YES</code>

## Property Descriptions

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Property	Description	Object	Value	Constraint
horiz_shrinking	Method by which horizontal dimension and position of widgets within region are readjusted when box widget shrinks.	Wdg	PV_DECREASE_REGION_SIZE PV_KEEP_REGION_SIZE PV_PREVENT_GRID_SHRINKING	GUI, <code>widget_type = PV_BOX</code>
horizontal	Horizontal arrangement of an array.	Wdg	PV_YES PV_NO	<code>array_size &gt; 1</code>
html_max_loop	Number of loop iterations to perform before terminating process. Default is 1000.	App	int	Web
html_max_nest	Number of nesting levels allowing in condition processing. Default is 20.	App	int	Web
html_name	Name of HTML widget, during HTML generation.	Wdg	str	RO, Web
html_template	Name of HTML document to use for HTML structure during HTML generation.	Scr SrvCom	str	Web
icon	Name of icon image file.	Scr	str	GUI
id	Internal identification for specified object.	App Link Scr SelGrp Sync TV Wdg	int	RT, RO

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## Property Descriptions

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Property	Description	Object	Value	Constraint
image_map	URL of server-side image map containing the coordinates and hyperlinks for the image.	Wdg	str	Web, <code>active_pixmap = fileName</code>
in_delete_where	Whether or not widget value is included in the WHERE clause of the SQL DELETE statement.	Wdg	PV_YES PV_NO	Writable only if widget is not part of a TM transaction in progress
in_update_where	Whether or not widget is included in the WHERE clause of the SQL UPDATE statement.	Wdg	PV_YES PV_NO	Writable only if widget is not part of a TM transaction in progress
in_gui	Test for GUI and not character mode.	App	PV_YES PV_NO	RT, RO
in_server	Determine which distributed application product is running.	App	PV_SERVER_NONE PV_SERVER_COM PV_SERVER_MTS PV_SERVER_EJB	RT, RO
in_web	Determine whether the application is running as a web application.	App	PV_YES PV_NO	RT, RO
in_zoom	Test if in zoom window.	App	PV_YES PV_NO	RT, RO

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## Property Descriptions

Property	Description	Object	Value	Constraint
<code>inactive_pixmap</code>	Name of image file to display on the widget when it is inactive (or cannot receive focus)	Wdg	<code>str</code>	GUI, Web, <code>active_pixmap</code> = filename, <code>widget_type</code> = PV_PUSH_BUTTON   PV_RADIO_BUTTON   PV_CHECK_BOX   PV_TOGGLE_BUTTON   PV_DYNAMIC_LABEL
<code>initialization</code>	When to populate option menu/combo: on screen entry, or when the widget is activated.	Wdg	<code>PV_FILL_AT_INIT</code> <code>PV_FILL_AT_POPUP</code>	<code>widget_type</code> = PV_OPTION_MENU   PV_COMBO_BOX and <code>drop_down_screen</code> = screenName
<code>input_protection</code>	Allow (PV_NO) or prevent (PV_YES) data entry. Single line and multiline text widgets in Web applications with PV_YES value are displayed in bold text.	Wdg	<code>PV_YES</code> <code>PV_NO</code>	
<code>ins_del_buttons</code>	Whether or not to allow Insert and Delete buttons in grid widget in a Web application.	Wdg	<code>PV_YES</code> <code>PV_NO</code>	Web, <code>widget_type</code> = PV_GRID_FRAME
<code>ins_func_name</code>	Special function to be called for INSERT operations.	TV	<code>str</code>	<code>insert_handling</code> = PV_HANDLING_FUNC



## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>insert_expression</code>	Expression included in values-list of INSERT statement of generated SQL.	Wdg	str	<code>use_in_insert = PV_YES</code> Writable only if the widget is not part of TM transaction in progress
<code>insert_handling</code>	Method for handling INSERT operations.	TV	PV_HANDLING_SQL PV_HANDLING_FUNC PV_HANDLING_NOTHING	
<code>insert_order</code>	Which table view (parent or child) participates in the INSERT statement first.	Link	PV_CHILD_FIRST PV_PARENT_FIRST	Writable only if the link's table views are not part of TM transaction in progress
<code>insert_service</code>	Name of service to use to implement Insert operation to database table associated with the table view.	TV	str	JN, Tux
<code>italic</code>	Italic font style attribute.	App Wdg Scr	PV_DEFAULT PV_YES PV_NO	GUI; Has no effect if the specified <code>font_name</code> does not have an italic qualifier or if it is only available in an italic style
<code>item_link</code>	URL destination of hyperlink per widget occurrence.	Wdg	str	Web; <code>widget_type = PV_DYNAMIC_LABEL   PV_GRAPH</code>
<code>java_tag</code>	Java event handler for this object.	Scr SrvCom Wdg	str	Java must be enabled

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## Property Descriptions

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Property	Description	Object	Value	Constraint
java_use_codeset	If set to PV_YES, Panther's Java methods will convert to/from Java Strings using the current <a href="#">codeset</a> .	App	PV_YES PV_NO	New in Panther 5.51. If PV_YES, when C API functions explicitly use UTF-8, and the JNI method uses String, proper conversion of UTF-8 to/from String will occur.
javascript	JavaScript functions called by screen or widget JavaScript events.	Scr SrvCom Wdg	str	Web
join_type	Type of join between two table views. The link type must be Server. Default is PV_INNER.	Link	PV_INNER PV_LEFT_OUTER PV_RIGHT_OUTER PV_FULL_OUTER	<a href="#">type</a> = PV_LNK_SERVER
justification	Left, right, or centered text orientation.	Wdg	PV_LEFT PV_RIGHT PV_CENTERED	PV_CENTERED not available in CM and Web and otherwise available only if <a href="#">widget_type</a> = PV_BOX and <a href="#">label</a> = str
keep_image_size	Whether or not to use GUI image dimensions when positioning image in generated HTML. PV_NO, image positions on single line in HTML.	Wdg	PV_YES PV_NO	Web, <a href="#">active_pixmap</a> = fileName

## Property Descriptions

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Property	Description	Object	Value	Constraint
keep_in_frame	Determines whether screen opens as MDI window.	Scr	PV_YES PV_NO	Windows, v4.5, RO, <a href="#">dialog</a> = PV_NO
keep_on_top	Determines whether the screen is the topmost window.	Scr	PV_YES PV_NO	Windows, v4.5, RO, <a href="#">dialog</a> = PV_NO   <a href="#">keep_in_frame</a> = PV_NO
key_constant[ <i>int</i> ]	Identifies primary key constants (from 1 to <a href="#">num_key_columns</a> ) in specified table view.	TV	str	RT, RO; only available for updatable table views after a SELECT, NEW, COPY, or COPY_FOR_UPDATE command
key_field[ <i>int</i> ]	Identifies primary key fields (from 1 to <a href="#">num_key_columns</a> ) in specified table view.	TV	objid	RT, RO; only available for updatable table views after a SELECT, NEW, COPY, or COPY_FOR_UPDATE command
keystroke_filter	Keystroke filter applied on data entry.	Wdg	PV_UNFILTERED PV_DIGITS_ONLY PV_YES_NO PV_ALPHABETIC PV_NUMERIC PV_ALPHANUMERIC PV_REGULAR_EXP PV_EDIT_MASK	

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## Property Descriptions

Property	Description	Object	Value	Constraint
label	Label or initial text assignment.	Wdg	str	RO for static labels; <code>widget_type =</code> PV_GRID_FRAME: Web only
legend[ <i>int</i> ]	Where data values display in relation to graphical data.	Wdg	str	GUI, Web; <code>chart_type =</code> PV_BAR   PV_XY_PLOT   PV_HIGH_LOW and <code>y_value_source[int] = str</code>
legend_border_width	Border width in graph legend.	Wdg	str ( 0 .. 100 )	GUI, Web, <code>legend_placement =</code> PV_DEFAULT   PV_LOCATION   PV_POSITION
legend_in_data_space	Whether or not graph legend should reside within data space.	Wdg	PV_YES PV_NO	GUI, Web, <code>legend_placement =</code> PV_LOCATION
legend_placement	Placement of graph legend.	Wdg	PV_DEFAULT PV_NONE PV_LOCATION PV_POSITION	<code>widget_type =</code> PV_GRAPH
legend_text_size	Relative point size of text associated with graph's legend.	Wdg	str ( 0 .. 100 )	GUI, Web, <code>legend_placement =</code> PV_DEFAULT   PV_LOCATION   PV_POSITION

## Property Descriptions

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Property	Description	Object	Value	Constraint
legend_title	Graph legend title.	Wdg	str	GUI, Web, legend_placement = PV_DEFAULT   PV_LOCATION   PV_POSITION
legend_x_anchor	X coordinate position to which graph's legend is anchored.	Wdg	PV_LEFT PV_CENTER PV_RIGHT	GUI, Web, legend_placement = PV_POSITION
legend_x_location	Horizontal placement (along x axis) of graph's legend.	Wdg	PV_LEFT PV_CENTER PV_RIGHT	GUI, Web, legend_placement = PV_POSITION
legend_x_position	Horizontal position (along x axis) of graph's legend.	Wdg	str (0 .. 100)	GUI, Web, legend_placement = PV_POSITION
legend_y_anchor	Y coordinate position to which graph's legend is anchored.	Wdg	PV_TOP PV_MIDDLE PV_BOTTOM	GUI, Web, legend_placement = PV_POSITION
legend_y_location	Vertical placement (along y axis) of graph's legend.	Wdg	PV_TOP PV_MIDDLE PV_BOTTOM	GUI, Web, legend_placement = PV_POSITION
legend_y_position	Vertical position (along y axis) of graph's legend.	Wdg	str (0 .. 100)	GUI, Web, legend_placement = PV_POSITION

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## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>length</code>	Number of columns of data/characters a widget can display onscreen. In a tab card, it is the length of the tab.	Wdg	<code>int</code>	Not applicable to dynamic and static labels or push buttons in Web applications; widget's <code>label</code> determines its length
<code>line_style[int]</code>	Style of line connecting data points for each data set ( <code>int</code> ) in a graph.	Wdg	<code>PV_NONE</code> <code>PV_SOLID</code> <code>PV_DASHED</code> <code>PV_DOTTED</code> <code>PV_LONG_DASH</code> <code>PV_DASH_DOT</code>	GUI, Web; must be <code>bar_style = PV_LINE</code>   <code>PV_CURVE</code>   <code>PV_TREND</code> ; <code>xy_style = PV_LINE</code>   <code>PV_CURVE</code>
<code>line_width[int]</code>	Width of line connecting data points for each data set ( <code>int</code> ) in a graph.	Wdg	<code>str (0 .. 100)</code>	GUI, Web; must be <code>bar_style = PV_LINE</code>   <code>PV_CURVE</code>   <code>PV_TREND</code> ; <code>xy_style = PV_LINE</code>   <code>PV_CURVE</code>
<code>link_attributes</code>	HTML attributes to add to anchor tag (<A>).	Wdg	<code>str</code>	Web, <code>default_link = URL</code> ; <code>widget_type = PV_DYNAMIC_LABEL</code>   <code>PV_GRAPH</code>
<code>listbox_type</code>	List box widget's behavior type: action or selection type.	Wdg	<code>PV_ACTION</code> <code>PV_SELECT_ANY</code>	<code>widget_type = PV_LIST_BOX</code>
<code>mail_attachment_delete</code>	If <code>PV_YES</code> , file is attached and then deleted when mail object is destroyed.	Mail	<code>PV_YES</code> <code>PV_NO</code>	

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## Property Descriptions

Property	Description	Object	Value	Constraint
mail_attachment_encoding	Encoding used for attached file.	Mail	str	
mail_attachment_filename	Filename to be sent as attachment.	Mail	str	
mail_attachment_pathname	File page and name to be sent as attachment.	Mail	str	
mail_attachment_tag	Application that generated the attachment.	Mail	str	
mail_bcc[int]	Value for BCC: line of the mail message.	Mail	str	
mail_cc[int]	Value for CC: line of the mail message.	Mail	str	
mail_connected	Indicates whether there is an active MAPI connection.	Mail	PV_YES PV_NO	PR_MAIL_SYSTEM only. Always PV_NO with CDO
mail_flags	Flags specifying how to logon to the MAPI session or CDO server.	Mail	PV_MAPI_NEW_SESSION PV_MAPI_LOGON_UI PV_MAPI_PASSWORD_UI PV_MAPI_USE_CDO PV_MAPI_USE_CDO_SSH	PR_MAIL_SYSTEM only
mail_from	Value for From: line of the mail message.	Mail	str	

## Property Descriptions

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Property	Description	Object	Value	Constraint
mail_password	Optional password for MAPI logon or CDO connect function.	Mail	str	PR_MAIL_SYSTEM only
mail_port	Port to connect to when using CDO	Mail	int (0 .. 65535)	CDO only
mail_profile	Optional MAPI profile name.	Mail	str	PR_MAIL_SYSTEM only
mail_receipt	Whether to ask for a receipt when the mail is first read.	Mail	PV_YES PV_NO	
mail_replyto	Value for the Reply-to: line of the mail message	Mail	str	CDO only
mail_server	Mail server to connect to	Mail	str	CDO only
mail_subject	Value for Subject: line of the mail message.	Mail	str	
mail_text	Text of the mail message.	Mail	str	
mail_to[int]	Value for To: line of mail message.	Mail	str	
mail_username	Username when connecting	Mail	str	CDO only
max_bundles	Maximum number of send bundles available, including the unnamed bundle. Defaults to 10.	App	int	RT

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## Property Descriptions

Property	Description	Object	Value	Constraint
max_data_length	Maximum number of columns of data widget can contain, includes offscreen data.	Wdg	int	No Web, <code>widget_type = PV_SINGLE_LINE_TEXT</code>   <code>PV_MULTILINE_TEXT</code>   <code>PV_LIST_BOX</code>   <code>PV_COMBO_BOX</code>
max_decimals	Maximum number of decimals places allowed in numeric display.	Wdg	int	<code>numeric_type = PV_CUSTOM</code>
max_fetches	Maximum number of fetches of data.	App	int	RT
max_min	Whether or not screen can be maximized and/or minimized.	Scr	<code>PV_NEITHER</code> <code>PV_BOTH</code> <code>PV_MAXIMIZEABLE</code> <code>PV_MINIMIZEABLE</code>	GUI
max_occurrences	Maximum data (number of rows) the object can contain.	Wdg Sync	int; for maximum number allowed by system, set to an empty string ( " ")	<code>scrolling = PV_YES</code>
max_rows_per_fetch	Number of rows returned in a fetch request. Default (and maximum) value is 1000.	App	int	RT
maximize_no_reposition	If set to <code>PV_YES</code> in Panther for Windows, windows will not be repositioned when they are maximized or restored.	App	<code>PV_YES</code> <code>PV_NO</code>	New in Panther 5.50.

## Property Descriptions

Property	Description	Object	Value	Constraint
maximum_value	Uppermost value of range of values.	Wdg	str	Data entry type widgets and scale widgets
mdt	PV_YES if contents of widget or group has changed (for example, when selection has been made).	Wdg SelGrp	PV_YES PV_NO	RT
member	Group to which widget belongs.	Wdg	str	RT, RO
memo1...memo9	Memo text associated with object.	Scr Wdg SelGrp Sync TV Link SrvCom	str	
menu_name	Name of screen's menu.	Scr	str	No Web
menu_script_file	Screen's menu script file.	Scr	str	No Web
min_decimals	Minimum number of decimal places allowed in numeric display.	Wdg	int	<a href="#">numeric_type</a> = PV_CUSTOM
min_horiz_space	Positioning specification to define minimum horizontal space to reserve between widgets.	Scr Wdg	str; grid units (g) by default, characters (c), inches (in), millimeters (mm), or pixels (p).	GUI
min_vert_space	Positioning specification to define minimum vertical space to reserve between widgets.	Scr Wdg	str; grid units (g) by default, characters (c), inches (in), millimeters (mm), or pixels (p).	GUI

## Property Descriptions

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Property	Description	Object	Value	Constraint
minimum_value	Minimum value of range of values.	Wdg	str	Data entry type widgets and scale widgets
mnemonic_character	Mnemonic character assignment.	Wdg	str	RT
mnemonic_position	Mnemonic character position in screen's title or widget's label	Scr Wdg	int	No Web, Scr: title = str; Wdg: label = str
model	Name of transaction model. Table view specification takes precedence over screen-level.	Scr SrvCom TV	str	
mouse_field	Field number of widget where mouse clicked.	App	int	RO
mouse_field_name	Name of widget where mouse clicked.	App	str	RO
mouse_field_occ	Occurrence number where mouse clicked.	App	int	RO
mouse_form_name	Name of screen where mouse clicked.	App	str	RO
must_fill	Whether or not widget's length must be character filled to its maximum (no blanks, spaces)	Wdg	PV_YES PV_NO	

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## Property Descriptions

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Property	Description	Object	Value	Constraint
name	Name attribute.	Scr Wdg SelGrp Sync TV Link	str	Scr: RT, RO
next_tab_stop	Name of widget or group that gets focus when user tabs out of the current object.	Wdg SelGrp	str	No Web
no_validation	Prevent (PV_YES) or allow (PV_NO) widget validation.	Wdg	PV_YES PV_NO	
null_field	Whether or not widget can accept and display null value.	Wdg	PV_YES PV_NO	
null_text	Character string to display when widget content is empty or null.	Wdg	str (up to 255 chars)	<code>null_text</code> = PV_YES
num_children	Number of child table views in table view.	TV	int	RT, RO
num_columns	Number of columns in table view. To get column names use <code>columns[int]</code> .	TV	str	RT, RO
num_del_images	Number of deleted rows. Refer to <code>di_string[int]</code> .	Wdg	int	RT, RO
num_fields	Number of widgets in specified table view.	TV	int	RT, RO

## Property Descriptions

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Property	Description	Object	Value	Constraint
num_fields_below	Number of widgets in table view and in its child table views. For application, number of widgets participating in current transaction.	App TV	int	RT, RO
num_key_columns	Number of widgets comprising primary key (indicated in <a href="#">primary_key[int]</a> property) of table view. Use <a href="#">primary_key</a> to get names.	TV	int	RT, RO; only available for updatable table views after a SELECT, NEW, COPY, or COPY_FOR_UPDATE command
num_occurrences	Number of populated occurrences in specified object.	Wdg SelGrp Sync	int	RT
num_of_selections	Number of selections allowed within a selection group.	SelGrp	PV_0_OR_1 PV_1 PV_ANY	
num_relations	Number of relationship entries specified in link's relations property.	Link	int	RT, RO
num_sorts	Number of entries indicated in table view's <a href="#">sort_widgets[int]</a> property.	TV	int	RT, RO

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## Property Descriptions

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Property	Description	Object	Value	Constraint
num_sv_fields	Number of widgets in server view (as identified by the <a href="#">sv</a> property) or in direct or indirect child table views connected via server links to the server view.	TV	int	RT, RO
num_svs_below	Number of server views connected to table view; number includes the specified TV and all direct and indirect child table views connected via sequential links. For application, number of server views participating in current transaction.	App TV	int	RT, RO
num_tvsv	Number of child table views connected directly or indirectly, via server links, to specified server view (as identified by the <a href="#">sv</a> property).	TV	int	RT, RO
num_tvsvs_below	Number of table views, including specified TV, and direct or indirect child table views of the server view. For application, number of table views participating in current transaction.	App TV	int	RT, RO

## Property Descriptions

Property	Description	Object	Value	Constraint
number_of_cards	Number of tab cards associated with tab deck widget, including hidden cards.	Wdg	int	Windows, Motif; RT, RO, <code>widget_type = PV_DECK</code>
numeric_type	Numeric format using variables defined in Panther message file.	Wdg	PV_DEFAULT_0 ...PV_DEFAULT_9 PV_CUSTOM	<code>data_formatting = PV_NUMERIC</code>
numflds	Number of widgets on screen.	Scr	int	RT, RO
numgrps	Number of groups on screen.	Scr	int	RT, RO
old_ax_initialize	Change how ActiveX controls are initialized	App ActiveX	PV_YES PV_NO	Must be set before control is realized/created
old_shrink_algorithm	Restores report area shrink to work as it did in Panther 5.40 and earlier.	App	PV_YES PV_NO	New in Panther 5.51.
on_blur	JavaScript function called when widget loses focus.	Wdg	str	Web
on_change	JavaScript function called when widget's content changes.	Wdg	str	Web
on_click	JavaScript function called when user clicks on widget.	Wdg	str	Web
on_focus	JavaScript function called when widget gets focus.	Wdg	str	Web

## Property Descriptions

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Property	Description	Object	Value	Constraint
on_load	JavaScript function to be called when the screen is loaded.	Scr SrvCom	str	Web
on_mouse_out	JavaScript function called when user moves mouse out of a widget.	Wdg	str	Web
on_mouse_over	JavaScript function called when user moves mouse over widget. Hyperlink's URL is displayed in browser status line.	Wdg	str	Web, <code>default_link = URL</code>
on_select	JavaScript function called when content of widget is selected (highlighted).	Wdg	str	Web
on_submit	JavaScript function called when screen is submitted.	Scr SrvCom	str	Web
on_unload	JavaScript function called when screen is unloaded.	Scr SrvCom	str	Web
onscreen_columns	Number of grid columns to display.	Wdg	int	<code>widget_type = PV_GRID_FRAME</code>
onscreen_rows	Number of data rows to display.	Wdg	int	<code>widget_type = PV_MULTILINE_TEXT   PV_LIST_BOX   PV_GRID_FRAME</code>

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## Property Descriptions

Property	Description	Object	Value	Constraint
orientation	Graph's orientation: PV_VERTICAL, X axis runs horizontally and Y axis runs vertically; PV_HORIZONTAL, X axis runs vertically and Y axis runs horizontally.	Wdg	PV_HORIZONTAL PV_VERTICAL	GUI, Web; <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
pane	Pane a screen or widget resides in	Scr Spl Wdg	name of containing pane in JPL; otherwise, the pane's object ID	RO; error if screen or widget is not in a pane
pane_col	Column the pane is in	Pane	int	
pane_index	Index of the pane in its containing splitter	Pane	int	
pane_row	Row the pane us in	Pane	int	
pane_screen	Screen that resides in the pane	Pane	str; name of the screen in JPL; otherwise, the screen's object ID	
parent	Link: Name of parent table view of link relationship.	Link	str	Writable only if TM transaction is not in progress
	TV: Name of parent table view (if any) of specified table view.	TV	str	RT, RO; returns empty string if root table view is specified since root has no parent

## Property Descriptions

Property	Description	Object	Value	Constraint
parent_link	Name of link in which specified table view is the child.	TV	str	RT, RO; returns empty string if root table view is specified since root has no parent
parent_window	Specifies the parent window of a non-MDI window.	Scr	PV_NONE PV_MDI_FRAME	Windows, v4.5, RO, <code>dialog = PV_NO</code>   <code>keep_in_frame = PV_NO</code>
password_char	Character to display on user input. In Web applications where a single line text widget has <code>password_field = PV_YES</code> , asterisks are displayed.	Wdg	str	No Web, <code>password_field = PV_YES</code>
password_field	Whether or not content of widget is invisible. For Web applications, widgets that have property set to <code>PV_YES</code> just display asterisks.	Wdg	PV_YES PV_NO	<code>widget_type = PV_SINGLE_LINE_TEXT</code>   <code>PV_MULTILINE_TEXT</code>
pie_diameter	Diameter of pie chart as a percentage of overall size of graph widget.	Wdg	str (0.0 .. 200.0)	GUI, Web, <code>chart_type = PV_PIE</code>
pie_direction	Order in which segments are placed around pie chart graph.	Wdg	PV_CLOCKWISE PV_COUNTERCLOCKWISE	GUI, Web, <code>chart_type = PV_PIE</code>
pie_start_angle	Location of first segment in pie chart, measured in degrees.	Wdg	str (0 .. 359)	GUI, Web, <code>chart_type = PV_PIE</code>

## Property Descriptions

Property	Description	Object	Value	Constraint
<code>pie_x_position</code>	Horizontal position of pie chart within graph widget.	Wdg	<code>str (0.0 .. 100.0)</code>	GUI, Web, <code>chart_type = PV_PIE</code>
<code>pie_y_position</code>	Vertical position of pie chart within graph widget.	Wdg	<code>str (0.0 .. 100.0)</code>	GUI, Web, <code>chart_type = PV_PIE</code>
<code>placement</code>	Where to place currency symbol in monetary data.	Wdg	<code>PV_LEFT</code> <code>PV_RIGHT</code> <code>PV_MIDDLE</code>	<code>numeric_type = PV_CUSTOM</code> and <code>currency_symbol</code> must have a value
<code>point_marker[ int ]</code>	Style of point marker format for each data series ( <code>int</code> ) in graph.	Wdg	<code>PV_NONE</code> <code>PV_DOT</code> <code>PV_PLUS</code> <code>PV_STAR</code> <code>PV_O</code> <code>PV_X</code> <code>PV_SQUARE</code> <code>PV_DIAMOND</code> <code>PV_TRIANGLE</code> <code>PV_CIRCLE</code> <code>PV_FILLED_SQUARE</code> <code>PV_FILLED_DIAMOND</code> <code>PV_FILLED_TRIANGLE</code> <code>PV_FILLED_CIRCLE</code>	GUI, Web, Either: <code>bar_style = PV_LINE   PV_CURVE   PV_POINT   PV_TREND</code> or <code>xy_style = PV_LINE   PV_CURVE   PV_POINT</code>

## Property Descriptions

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Property	Description	Object	Value	Constraint
point_size	Font point size.	App Scr Wdg	str	GUI; Font size is system-dependent; point size must be available for specified <a href="#">font_name</a> or <code>font_name</code> must be scalable
pointer	Mouse pointer shape.	Scr	str	GUI
poll_frequency	Determine how often the report viewer checks to see if the user has pressed the CANCEL button. (C constant <code>PR_RW_POLL_FREQUENCY</code> )	App (Rpt)	int	
popup_menu	Name of menu that will popup when user clicks right-mouse button on widget.	Scr Wdg	str	No Web; Menu must be in a menu script loaded in memory at screen- or application-level
popup_script_file	Name of menu file (*.mnu) to load in screen-level memory.	Wdg	str	No Web
position_region	Whether or not box widget is treated as a positioning region.	Wdg	PV_YES PV_NO	<a href="#">widget_type</a> = PV_BOX
precision	Numeric precision assignment for use by database drivers.	Wdg SelGrp	int	<a href="#">c_type</a> = PV_DOUBLE   PV_FLOAT   PV_PACKED   PV_ZONED
prefix_markup	HTML markup to include in start tag.	Wdg	str	Web

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## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>prev_tab_stop</code>	Name of widget or group that gets focus when user backtabs out of current object.	Wdg SelGrp	<code>str</code>	No Web
<code>previous_form</code>	The screen name as specified in the cache file.	App	<code>str</code>	Web; RT, RO
<code>primary_key[int]</code>	Columns composing database table's primary key.	TV	<code>str</code>	Writable only if table view is not part of a TM transaction in progress
<code>primary_key_update</code>	Whether a primary key change should be deleted and inserted OR updated.	App	<code>PV_YES</code> <code>PV_NO</code>	
<code>provider_url</code>	The URL of the application server.	App	<code>str</code>	RT; WAS
<code>queryendsession</code>	Function to call during shutdown processing.	App	<code>str</code> <code>PV_QUERYENDSESSION_YES</code> <code>PV_QUERYENDSESSION_NO</code> <code>PV_QUERYENDSESSION_AS_K</code> <code>PV_NULL</code>	Windows
<code>radio_buttons</code>	Whether or not to display radio buttons on each occurrence in a Web application's grid widget.	Wdg	<code>PV_YES</code> <code>PV_NO</code>	Web, <code>widget_type = PV_GRID_FRAME</code>

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## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>reg_exp_filter</code>	Regular expression to validate data on a character-by-character basis.	Wdg	<code>str</code>	<code>keystroke_filter = PV_REGULAR_EXP</code>
<code>regenerate_ins_sql</code>	Whether or not the transaction manager regenerates a SQL INSERT statement for every row in a table view. <code>PV_NO</code> is the default value at application level; <code>PV_DEFAULT</code> at table view level.	App, TV	<code>PV_YES</code> <code>PV_NO</code> <code>PV_DEFAULT</code>	RT
<code>regenerate_upd_sql</code>	Whether or not the transaction manager regenerates a SQL UPDATE statement for every row in a table view. <code>PV_NO</code> is the default value at application level; <code>PV_DEFAULT</code> at table view level.	App, TV	<code>PV_YES</code> <code>PV_NO</code> <code>PV_DEFAULT</code>	RT
<code>region_margin</code>	Positioning specification to define reserved space between widgets and container's border.	Scr Wdg	<code>str</code> ; grid units ( <code>g</code> ) by default, characters ( <code>c</code> ), inches ( <code>in</code> ), millimeters ( <code>mm</code> ), or pixels ( <code>p</code> ).	GUI, Wdg: <code>widget_type = PV_BOX</code>
<code>regular_exp</code>	Regular expression used to validate widget's content.	Wdg	<code>str</code>	
<code>rel_child[int]</code>	Database column derived from child table view; component of link's relations property.	Link	<code>str</code>	RT, RO

## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>rel_op[ int ]</code>	Type of relationship between two table views—join or lookup—for an entry in link's relations property.	Link	PR_REL_OP_JOIN PR_REL_OP_LOOKUP	RT, RO
<code>rel_parent[ int ]</code>	Database column (or widget) belonging to parent table view; component of link's relations property.	Link	str	RT, RO
<code>relations[ int ]</code>	List of entries that describe the relationship between two table views. Refer to <a href="#">rel_child[ int ]</a> , <a href="#">rel_parent[ int ]</a> , and <a href="#">rel_op[ int ]</a> for runtime equivalents.	Link	str; in the form "parentColname childColname relationship".	
<code>repeating</code>	Whether or not null character/string (in <code>null_text</code> property) fills widget's content to its maximum length.	Wdg	PV_YES PV_NO	<code>null_text</code> = PV_YES
<code>report_invocation</code>	Name of report to invoke as a subreport; including filename if report is external: reportFilename!report Name. (C constant PR_RW_ACTION_STRING)	Rpt	str	

## Property Descriptions

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Property	Description	Object	Value	Constraint
report_no_color	When set to PV_YES, color properties of widgets in reports are ignored.	App	PV_YES PV_NO	New in Panther 5.40.
required	Whether or not user input is required.	Wdg	PV_YES PV_NO	
resize_function	Custom resize function for controlling screen layout after screen is resized.	Scr	str	No Web
resizeable	Allow or prevent screen from being resized by user at runtime.	Scr	PV_YES PV_NO	No Web
reverse	Reverse video attribute. For widgets, applies to text.	Scr Wdg	PV_YES PV_NO	Scr: CM (reverse video handling is terminal-dependent) , <a href="#">border_fg_color_type</a> = PV_BASIC Wdg: <a href="#">fg_color_type</a> = PV_BASIC.



## Property Descriptions

Property	Description	Object	Value	Constraint
root	Scr: Table view name, -none-, or empty string (indicates property is set to -default-). To get root table view of current transaction, use <a href="#">sv</a> application property or call <a href="#">sm_tm_pinquire</a> with an argument of TM_ROOT_NAME.	Scr SrvCom	str	Writable only if TM transaction is not in progress
	Detail node: Root table view when transaction manager is used to fetch data. (C constant PR_RW_DETAIL_ROOT)	Wdg (Rpt)	str	Data Source = TM View
rounding	How numeric data should be rounding: up, down, or round adjust (rounds up above 5).	Wdg	PV_ROUND_ADJUST PV_ROUND_DOWN PV_ROUND_UP	<a href="#">data_formatting</a> = PV_NUMERIC
row_entry_func	Name of function to invoke when a grid row gains focus.	Wdg	str	<a href="#">widget_type</a> = PV_GRID_FRAME
row_exit_func	Name of function to invoke when a grid row loses focus.	Wdg	str	<a href="#">widget_type</a> = PV_GRID_FRAME
row_margin	Amount of space above and below text in grid row.	Wdg	str (units)	GUI; <a href="#">widget_type</a> = PV_GRID_FRAME
row_separators	Whether or not horizontal lines display between each grid member row.	Wdg	PV_YES PV_NO	<a href="#">widget_type</a> = PV_GRID_FRAME

## Property Descriptions

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Property	Description	Object	Value	Constraint
row_titles	Source or type of row titles in grid widget: none, numbers, or data in the first column.	Wdg	PV_NONE PV_AUTO_NUMBER PV_FIRST_COLUMN	<code>widget_type = PV_GRID_FRAME</code>
runtime_license	License needed to access the ActiveX control at runtime.	Wdg	str	Windows, no Web; <code>widget_type = PV_ACTIVEX</code>
save_func_name	Special function to be called for SAVE operations.	TV	str	<code>delete_handling</code>   <code>insert_handling</code>   <code>update_handling</code> = <code>PV_HANDLING_FUNC</code>
scale	Database property that determines the length of a numeric column. This property is acquired from the database column. This information is currently unused by Panther.	Wdg	int	
screen_type	Identifies a screen or service component.	Scr SrvCom	PV_SCREEN PV_COMPONENT	
scroll_buttons	Whether or not to allow scroll buttons in grid widget in Web application.	Wdg	PV_YES PV_NO	Web, <code>widget_type = PV_GRID_FRAME</code>
scroll_increment	Number of occurrences to scroll when PgDn/PgUp is used.	Wdg Sync	int	Wdg: <code>scrolling = PV_YES</code>

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## Property Descriptions

Property	Description	Object	Value	Constraint
scrolling	Whether or not widget scrolls vertically.	Wdg	PV_YES PV_NO	Not applicable to multiline text widgets in Web applications
secure_post	Whether or not screen should be posted to secure server using HTTPS protocol.	Scr SrvCom	PV_YES PV_NO	Web
seg_label_location	Where labels should display: around outer edge of pie chart or as a legend.	Wdg	PV_OUT PV_LEGEND	GUI, Web, <a href="#">chart_type</a> = PV_PIE and <a href="#">seg_label_source</a> = str
seg_label_source	Source or values for pie chart segment labels.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_PIE
seg_percent_location	If and where percentages are displayed in pie chart segments.	Wdg	PV_NONE PV_IN PV_OUT	GUI, Web, <a href="#">chart_type</a> = PV_PIE
seg_style_source	Styles (or source of) for each pie chart segment.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_PIE
seg_value_location	If and where numeric pie chart segment values are displayed.	Wdg	PV_NONE PV_IN PV_OUT	GUI, Web, <a href="#">chart_type</a> = PV_PIE
sel_func_name	Special function to be called for SELECT operations.	TV	str	<a href="#">select_handling</a> = PV_HANDLING_FUNC

## Property Descriptions

Property	Description	Object	Value	Constraint
<code>select_expression</code>	Expression in select list of generated SQL.	Wdg	<code>str</code>	<code>use_in_select = PV_YES</code>
<code>select_force_valid</code>	Whether or not field validation ( <code>sm_fval</code> ) is called after data is written to the widget.	Wdg	<code>PV_YES</code> <code>PV_NO</code>	<code>use_in_select = PV_YES</code>
<code>select_handling</code>	Method for handling SELECT operations.	TV/SV	<code>PV_HANDLING_SQL</code> <code>PV_HANDLING_FUNC</code> <code>PV_HANDLING_NOTHING</code>	
<code>select_on_entry</code>	Whether or not widget content is selected when user tabs into field.	Wdg	<code>PV_YES</code> <code>PV_NO</code>	
<code>select_service</code>	Name of service to use to implement Select operation against database table associated with the table view.	TV	<code>str</code>	JN, Tux
<code>select_set_valid</code>	Whether or not VALIDED bit should be set when SELECT statement fetches data to widget	Wdg	<code>PV_YES</code> <code>PV_NO</code>	<code>use_in_select = PV_YES</code>
<code>selected</code>	Whether or not selection-type widget is selected.	Wdg	<code>PV_YES</code> <code>PV_NO</code>	RT

## Property Descriptions

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Property	Description	Object	Value	Constraint
selection_screen	Name of screen (and service component selection screen) to display list of viable choices when user presses ITSEL key or chooses Help.	Wdg	str	<code>widget_type = PV_SINGLE_LINE_TEXT   PV_MULTILINE_TEXT</code> with <code>word_wrap = PV_NO</code>
shift_increment	Number of columns of data to shift.	Wdg	int	<code>max_data_length &gt; length</code>
show_status_text	If PV_YES, the most recent status message from the control will be displayed in the status line when the control has focus.	Wdg	PV_YES PV_NO	Web <code>widget_type = PV_ACTIVEX</code>
sibling	Define screen as sibling, which means user can bring focus to this screen without closing the calling screen.	Scr	PV_YES PV_NO	RT
sign	Whether object's numeric data type is signed or unsigned; for use by database drivers.	Wdg SelGrp	PV_YES PV_NO	<code>c_type = FT_PACKED   FT_ZONED</code>
size_to_contents	Whether or not widget resizes at runtime to fit its content.	Wdg	PV_YES PV_NO	No Web (browser determines size based on content); <code>label = str</code>

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## Property Descriptions

Property	Description	Object	Value	Constraint
<code>sort_order</code>	Define how data is sorted when the user clicks on the grid column title.	Wdg	PV_DATE_TIME PV_LEXICOGRAPHIC PV_NUMERIC PV_CUSTOM	Widget must be in a grid widget; <code>column_click_action</code> = PV_SORT
<code>sort_order_func</code>	Name of custom function to invoke when data in the grid column is sorted.	Wdg	str	Widget must be in a grid widget; <code>sort_order</code> = PV_CUSTOM
<code>sort_widgets[ int ]</code>	List of widget names by which to order data.	TV	str	
<code>source_occ</code>	Occurrence from parent table view that was valid when the child table was last fetched.	TV	int	RT, RO
<code>spacing</code>	Space between array elements.	Wdg	int	<code>array_size</code> > 1
<code>splitter</code>	Splitter the pane is a member of	Scr Pane Spl	name of containing splitter in JPL; otherwise, the splitter's object ID	
<code>splitter_col_width</code>	Array of column widths	Spl	int	
<code>splitter_cols</code>	Number of columns	Spl	int	
<code>splitter_row_height</code>	Array of row heights	Spl	int	
<code>splitter_rows</code>	Number of rows	Spl	int	

## Property Descriptions

Property	Description	Object	Value	Constraint
sql_statement	SQL string to fetch data for a report's detail node. (C constant PR_RW_SQL_STATEMENT)	Wdg (Rpt)	str	Data Source = SQL Query
start_column	Horizontal starting position.	Wdg	int	
start_row	Vertical starting position.	Wdg	int	
startup	Open screen at default size, maximized, or minimized (iconified).	Scr	PV_NORMAL PV_ICONFIELD PV_MAXIMIZE	GUI
status_line_text	Status line text displayed when object has focus.	Scr Wdg	str	For Web applications, the browser must be JavaScript-enabled to display status line text in the browser's status message area
status_line_font	Change the value supplied by the Font entry in the [Prolifics StatusLine] section of the Windows initialization file	App	str	Windows
stripe_current_row	Whether or not entire grid row is highlighted on selection as opposed to a single cell.	Wdg	PV_YES PV_NO	<code>widget_type = PV_GRID_FRAME</code>
style	Line style for widget's border.	Wdg	PV_STYLE_0... PV_STYLE_9 corresponding to Panther line style.	CM, <code>widget_type = PV_MULTILINE_TEXT   PV_LIST_BOX</code> and <code>border = PV_YES</code>

## Property Descriptions

Property	Description	Object	Value	Constraint
stylesheet_data	The body of the stylesheet as specified inline.	Scr	str	Web, stylesheet_source = PV_INLINE
stylesheet_link	A URL for external stylesheet.	Scr	str; URL	Web, stylesheet_source = PV_LINK
stylesheet_source	Whether or not the stylesheet is specified inline or referenced by URL.	Scr	PV_NONE PV_LINK PV_INLINE	Web
stylesheet_type	Stylesheet specification to be used: CSS or JavaScript.	Scr	PV_CSS PV_JAVASCRIPT	Web, stylesheet_source = PV_INLINE   PV_LINK
submit	Runs the script on the push button instead of submitting screen back to the HTTP server.	Wdg	PV_YES PV_NO	Web, widget_type = PV_PUSH_BUTTON
subtitle	Graph's subtitle (displays below title).	Wdg	str	GUI, Web, widget_type = PV_GRAPH
subtitle_text_size	Graph's subtitle text size; percentage of the widget size.	Wdg	str (0.0 .. 100.0)	GUI, Web, widget_type = PV_GRAPH and subtitle = str
suffix_markup	HTML markup to include in end tag.	Wdg	str	Web



## Property Descriptions

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Property	Description	Object	Value	Constraint
sv	Name of server view containing current table view or widget. App: Name of root table view of current transaction.	App Wdg TV	str	RT, RO
sv_below[ <i>int</i> ]	Names of server views at and below specified server view and corresponding to specified occurrence.	App TV	str	RT, RO
sv_field[ <i>int</i> ]	Identifies widgets (from 1 to <a href="#">num_sv_fields</a> ) in specified server view.	TV	objid; name or field number if unnamed	RT, RO
sync_group	Synchronized scrolling group identifier.	Wdg	objid; name or field number if unnamed.	RT
synchronization	Whether members of table/server view are synchronized in order to update database.	Wdg	PV_DEFAULT PV_YES PV_NO	Writable only if widget is not participating in TM transaction in progress
system_menu	Presence or absence of system menu. PV_NO for Web application screens allows widgets to position next to browser window's borders (also see <a href="#">title_bar</a> and <sup>1</sup> ).	Scr	PV_YES PV_NO	

## Property Descriptions

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Property	Description	Object	Value	Constraint
system_update	Allow operating system to update date/time field.	Wdg	PV_YES PV_NO	<code>data_formatting = PV_DATE_TIME</code>
tab_entry_func	Name of function to invoke when a tab card's tab gains focus.	Wdg	str	Windows, Motif.
tab_exit_func	Name of function to invoke when a tab card's tab loses focus.	Wdg	str	Windows, Motif.
table	Database table name associated with table view. Used in FROM clause in SQL generation.	TV	str	Writable only if table view is not participating in TM transaction in progress
table_lookup	Name of screen whose contents are used to validate data entry in widget.	Wdg	str	<code>widget_type = PV_SINGLE_LINE_TEXT</code>   <code>PV_MULTILINE_TEXT</code>   <code>PV_COMBO_BOX</code>
tableview	Table view name.	Wdg	objid	RT, RO
target	Target window/frame for hyperlink direction.	Wdg	str	Web, <code>default_link = URL</code>
target_default	Target window in which screen's hyperlinks are displayed.	Scr SrvCom	str	Web
text_size	Overall text size within graph; percentage of the widget size.	Wdg	str (0.0 .. 100.0)	GUI, Web, <code>widget_type = PV_GRAPH</code>

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## Property Descriptions

Property	Description	Object	Value	Constraint
thousand_sep	Punctuation for indicating a thousandths separator in numeric data.	Wdg	PV_COMMA PV_DOT PV_BLANK PV_NONE	numeric_type = PV_CUSTOM
three_d	3-D shading effect around buttons and other objects. Can be set at application level and overridden on screen-by-screen basis. PV_APPLICATION uses application-level specification.	App Scr	PV_YES PV_NO PV_APPLICATION	No Web
title	Scr: Screen title, displayed on the title bar.	Scr SrvCom	str	
title	Application's frame window title in Windows	App	str	Windows
title	Wdg (graph): Title displayed top center.	Wdg	str	GUI, Web, widget_type = PV_GRAPH
title	Wdg (non-graph): Title text on widget border.	Wdg	str	CM, widget_type = PV_MULTILINE_TEXT   PV_LIST_BOX and border = PV_YES

## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>title_bar</code>	Screen's title bar is or is not displayed. <code>PV_NO</code> for Web screens allows widgets to position next to browser window's borders (also see <a href="#">border</a> and <a href="#">system_menu</a> ).	Scr	<code>PV_YES</code> <code>PV_NO</code>	
<code>title_text_size</code>	Graph's title text size, measured as a percentage of graph widget's size.	Wdg	<code>str (0.0 .. 100.0)</code>	GUI, Web, <code>widget_type =</code> <code>PV_GRAPH</code> and <code>title =</code> <code>str</code>
<code>tm_ansi_joins</code>	When set to <code>PV_YES</code> , TM will generate ANSI syntax inner and outer joins	App	<code>PV_YES</code> <code>PV_NO</code>	New in Panther 5.40
<code>tm_ansi_outer_joins</code>	When set to <code>PV_YES</code> , TM will generate ANSI syntax outer joins	App	<code>PV_YES</code> <code>PV_NO</code>	New in Panther 5.40
<code>tm_apply_class_changes</code>	When set to <code>PV_YES</code> , TM will apply <code>PR_CLASS</code> changes at once	App	<code>PV_YES</code> <code>PV_NO</code>	New in Panther 5.10
<code>tm_clear_fast</code>	Transaction manager's method of clearing data: <code>PV_YES</code> clears data by server view; <code>PV_NO</code> (default) clears data by table view.	App	<code>PV_YES</code> <code>PV_NO</code> <code>PV_DEFAULT</code>	RT

## Property Descriptions

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Property	Description	Object	Value	Constraint
tm_scope	Determine if a service call is for the table view and all table view/server views in the tree or for the server view only.	App	TM_TV_AND_BELOW SV_ONLY	RT
tm_server_view	Determine the name of the server view in the current transaction manager-implemented service call. This value is set in the middleware API transaction model and ensures that the correct arguments are sent and received for the service call.	App	str	RT
tm_transaction	Determine whether a service is transaction manager-enabled, and if so, which transaction manager operation is to be performed.	App	ttUNKNOWN ttSELECT ttUPDATE ttINSERT ttDELETE ttLINKVAL	RT
toolbar_allowed_sites	Sets the allowed toolbar placements.	App	PV_TOOLBAR_FLOAT PV_TOOLBAR_TOP PV_TOOLBAR_BOTTOM PV_TOOLBAR_LEFT PV_TOOLBAR_RIGHT	Windows toolbar; RT

## Property Descriptions

Property	Description	Object	Value	Constraint
toolbar_current_site	Sets the current toolbar placement.	App	PV_TOOLBAR_FLOAT PV_TOOLBAR_TOP (def) PV_TOOLBAR_BOTTOM PV_TOOLBAR_LEFT PV_TOOLBAR_RIGHT	Windows toolbar; RT
toolbar_hidden	Whether or not the toolbar is visible.	App	PV_YES PV_NO	Windows toolbar; RT
toolbar_x_position	Determines the x coordinate of the toolbar's upper left corner.	App	int	Windows toolbar; RT
toolbar_y_position	Determines the y coordinate of the toolbar's upper left corner.	App	int	Windows toolbar; RT
tooltip_style	Determine the tooltip style bits.	App	PV_TOOLTIP_ALWAYS PV_TOOLTIP_NOPREFIX PV_TOOLTIP_NOANIMATE PV_TOOLTIP_NOFADE	Windows, Motif, RT
tooltip_text	Determine the tooltip text.	Wdg	str	Windows, Motif, v4.5+
topmost_card	Identify topmost tab card on tab deck.	Wdg	objid; card name	Windows, Motif, RT, <a href="#">widget_type</a> = PV_DECK
tp_async_poll_interval	How often to poll for outstanding asynchronous service requests.	App	double (>0); in seconds (default 1.0)	JN/Tux

## Property Descriptions

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Property	Description	Object	Value	Constraint
tp_block	Service call's response when blocking condition exists (e.g., if buffer is not available). PV_YES, service call waits for available resources or until timeout occurs; PV_NO, call fails immediately.	App	PV_YES PV_NO	JN/Tux
tp_commit_return	When transaction returns to calling agent during execution of <a href="#">xa_commit</a> . TP_COMMIT_DECISION_LOGGED, <code>xa_commit</code> returns after all participants in transaction indicate that they are prepared for commit (first phase of two-phase commit protocol). TP_COMMIT_COMPLETED, <code>xa_commit</code> returns only after calling agent gives permission to commit (second phase of two-phase commit protocol).	App	TP_COMMIT_DECISION_LOGGED TP_COMMIT_COMPLETED	JN/Tux

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## Property Descriptions

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Property	Description	Object	Value	Constraint
tp_exc_code	Exception code associated with most recently executed middleware API command. Reset after every middleware API command and generated by agent which originates the command (whereas <a href="#">tp_mon_exc_code</a> is generated by middleware API). Check <a href="#">tp_severity</a> for successful completion. It is possible that exception occurred, but exception handler determined the statement succeeded.	App	int; 0 indicates no exception	JN/Tux, RO
tp_exc_msg	Exception message associated with most recent middleware API command. Reset after every middleware API command and generated by agent which originates command (whereas <a href="#">tp_mon_exc_msg</a> is generated by middleware API). Check <a href="#">tp_severity</a> for successful completion of statement. It is possible that exception occurred, but exception handler determined the statement succeeded.	App	str; a 0 length message indicates no exception	JN/Tux, RO



## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>tp_exc_names[ int ]</code>	Mnemonic name associated with exception code (must be a positive number). Use value of <a href="#">tp_exc_code</a> as array index.	App	str; TP_ prefix omitted, e.g., COMMIT_FAILED for TP_COMMIT_FAILED	JN/Tux, RO
<code>tp_mon_exc_code</code>	Exception code associated with most recent middleware API command. Reset after every middleware API command and generated by middleware API (whereas <a href="#">tp_exc_code</a> is generated by agent that issued command). If an exception is detected by Panther rather than by middleware API, <code>tp_exc_code</code> gets value while <code>tp_mon_exc_code</code> does not.	App	int	JN/Tux, RO

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## Property Descriptions

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Property	Description	Object	Value	Constraint
tp_mon_exc_msg	Exception message associated with most recent middleware API command. Generated by the middleware API and reset after every middleware command. (tp_exc_msg is generated by agent that issued the command.) If middleware does not supply an exception message, property is cleared. If exception is detected by Panther instead of the middleware API, message is written to tp_exc_msg.	App	Str	JN/Tux, RO
tp_return	Return value from most recently executed middleware API command.	App	str	JN/Tux, RT, RO
tp_severity	Severity associated with most recently executed middleware API command. Reset after every middleware API command. Commands successfully completed, return TP_NONE.	App	TP_NONE, TP_INFORMATION, TP_WARNING, TP_ERROR, TP_MESSAGE, TP_COMMAND, TP_REQUEST, TP_TRANSACTION, TP_CONNECTION, TP_PANIC	JN/Tux, RT, RO

## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>tp_severity_names[int]</code>	Mnemonic names of exception severities. Use <code>tp_severity</code> (which must be 0 or greater) as array index.	App	NONE, INFORMATION, WARNING, ERROR, MESSAGE, COMMAND, REQUEST, TRANSACTION, CONNECTION, PANIC	JN/Tux, RT, RO
<code>tp_signal_restart</code>	Reaction of service call or unsolicited message notification to system interrupt signal. PV_YES, service call is protected from system interruption; PV_NO, allows signal interrupt and results in service call failure.	App	PV_YES PV_NO	JN/Tux, RT
<code>tp_svc_cache_size</code>	Size of service portion of JIF cache—number of services to be cached to improve performance.	App	int; default 20 for client, 50 for server	JN/Tux, RT
<code>tp_svc_outcome</code>	Status value associated with most recently completed service request. Reset after every service request completes. Use TP_SUCCESS to test for success; TP_FAILURE to test for failure.	App	TP_SUCCESS, TP_FAILURE	JN/Tux, RT, RO

## Property Descriptions

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Property	Description	Object	Value	Constraint
tp_svc_return	Return value associated with most recently completed service request. Always an integer reflecting CODE value specified by service when it executes <a href="#">service_return</a> command.	App	str; 0, if service has no return value.	JN/Tux, RT, RO
tp_this_call	Callid of active request.	App	str (empty if no request is active)	JN/Tux, RT, RO
tp_timeout	Reaction of service call to blocking condition. PV_YES (default) establishes connection-wide default and service call waits for default timeout period specification; PV_NO, service calls ignore timeout limit and wait indefinitely.	App	PV_YES PV_NO	JN/Tux, RT
tp_tran_level	Current transaction level.	App	int; 1 if caller is in a transaction, 0 if it is not.	JN/Tux, RT, RO

## Property Descriptions

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Property	Description	Object	Value	Constraint
<code>tp_tran_status</code>	Status associated with current default transaction. Test whether to commit or rollback transaction (as done by <code>xa_end</code> command). Test for success using <code>TP_WILL_COMMIT</code> ; use <code>TP_WILL_ABORT</code> to test for failure. <code>TP_WILL_COMMIT</code> , reset to zero whenever transaction is successfully initiated. If after subsequent statements are executed, <code>tp_severity</code> value exceeds <code>TP_WARNING</code> , or <code>tp_svc_outcome</code> value indicates application-level service request failure, value is set to <code>TP_WILL_ABORT</code> .	App	<code>TP_WILL_COMMIT</code> <code>TP_WILL_ABORT</code>	JN/Tux, RT, RO
<code>tp_unsol_poll_interval</code>	Frequency with which the middleware polls for outstanding unsolicited messages. If using different method of receiving unsolicited messages (e.g., signal interrupts), property has no effect.	App	double ( $\geq 0$ ); default 10 seconds	JN/Tux, RT
<code>tv</code>	Name of table view to which the widget is a member.	Wdg	str	RT, RO

## Property Descriptions

Property	Description	Object	Value	Constraint
<code>tv[int]</code>	Name of specified server view and all table views connected directly or indirectly (from 1 to <code>num_tvs</code> ) via server links to the specified server view.	TV	<code>str</code>	RT, RO
<code>tv_below[int]</code>	App: Names of table views participating in current transaction.	App	<code>str</code>	RT, RO
<code>tv_below[int]</code>	TV: Names of table views connected directly or indirectly to specified table view (and corresponding to array number); e.g., <code>x-&gt;tv_below[n]</code> means the n'th table view at or below the server view containing the table view x.	TV	<code>str</code>	RT, RO
<code>type</code>	Type of link between two table views.	Link	<code>PV_LNK_SEQUENTIAL</code> <code>PV_LNK_SERVER</code> <code>PV_LNK_NONE</code>	Writable only if the link's table views are not part of a TM transaction in progress.
<code>underlined</code>	Font style attribute.	App Scr Wdg	<code>PV_DEFAULT</code> <code>PV_YES</code> <code>PV_NO</code>	No Motif
<code>upd_func_name</code>	Special function to be called for UPDATE operations.	TV	<code>str</code>	<code>update_handling</code> = <code>PV_HANDLING_FUNC</code>

## Property Descriptions

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Property	Description	Object	Value	Constraint
updatable	Whether table view is updatable (database tables participate in INSERT, UPDATE, DELETE transactions).	TV	PV_YES PV_NO	Writable only if the table view is not participating in TM transaction in progress
update_expression	Expression used in SET clause of SQL generated UPDATE statement.	Wdg	str	<code>use_in_update = PV_YES</code> ; writable only if the widget is not participating in TM transaction in progress
update_handling	Method for handling UPDATE operations.	TV	PV_HANDLING_SQL PV_HANDLING_FUNC PV_HANDLING_NOthing	
update_order	Which table view (parent or child) participates in UPDATE statement first.	Link	PV_CHILD_FIRST PV_PARENT_FIRST	Writable only if the link's table views are not participating in TM transaction in progress
update_service	Name of service to use to implement Update operation in database tables associated with the table view.	TV	str	JN, Tux
use_in_insert	Whether or not widget is included in INSERT statement and, therefore, its content is added to database.	Wdg	PV_YES PV_NO	Writable only if the widget is not participating in TM transaction in progress

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## Property Descriptions

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Property	Description	Object	Value	Constraint
use_in_select	Whether or not database column associated with widget is included in the select list of a SELECT statement.	Wdg	PV_YES PV_NO	Writable only if the widget is not participating in TM transaction in progress
use_in_update	Whether or not database column associated with widget is included in the SET clause of an UPDATE statement.	Wdg	PV_YES PV_NO	Writable only if the widget is not participating in TM transaction in progress
use_in_where	Whether or not WHERE clause should use widget's data to specify which rows to fetch.	Wdg	PV_YES PV_NO	
validation_func	Validation function executed when object loses focus or when button pressed.	Wdg SelGrp	str	RT
validation_link	Name of link to use to validate widget's data.	Wdg	str	
validation_service	Name of service that receives data from the client into the service component, verifies the primary key in the database, and returns detail data for that primary key to the client.	Link	str	JN, Tux
validated	Whether or not object has been validated.	Wdg SelGrp	PV_YES PV_NO	RT

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## Property Descriptions

Property	Description	Object	Value	Constraint
vbscript	VBScript function.	Scr SrvCom Wdg	str	Web
version_column	Whether or not widget is identified as the version column.	Wdg	PV_YES PV_NO	Writable only if the widget is not participating in TM transaction in progress
vert_max_size	Determine widget's maximum growth in height if screen is resized at runtime.	Wdg	str; grid units (g) by default, characters (c), inches (in), millimeters (mm), or pixels (p).	GUI, <code>auto_vert_resize = PV_YES</code>
vert_min_size	Determine widget's minimum width if screen is resized at runtime.	Wdg	str; grid units (g) by default, characters (c), inches (in), millimeters (mm), or pixels (p).	GUI, <code>auto_vert_resize = PV_YES</code>
vert_rotation	Graph's vertical rotation (about horizontal axis), measured in degrees.	Wdg	str (0 .. 90)	GUI, Web, <code>widget_type = PV_GRAPH</code> , <code>chart_3d = PV_YES</code>
vert_scroll_bar	Vertical scroll bar assignment for scrolling grid, list box, or multiline text widgets.	Wdg	PV_YES PV_NO	<code>scrolling = PV_YES</code>
vert_shrinking	Method by which vertical dimension and widget positions are adjusted when box widget is shrunk.	Wdg	PV_DECREASE_REGION_SIZE PV_KEEP_REGION_SIZE PV_PREVENT_GRID_SHRINKING	GUI, <code>widget_type = PV_BOX</code>

## Property Descriptions

Property	Description	Object	Value	Constraint
vertical_anchor	Vertical anchor point.	Wdg	PV_TOP PV_BOTTOM PV_MIDDLE	GUI, Web
view_full_page	Whether report viewer output is scaled to the page size (PV_YES) or to the actual size (PV_NO).	App	PV_YES PV_NO	
vncolms	Number of columns in viewport.	Scr	int	RT, no Web
vnlines	Number of lines in viewport.	Scr	int	RT, no Web
vofcolm	Viewport column offset.	Scr	int	RT, no Web
vofline	Viewport line offset.	Scr	int	RT, no Web
vstcolm	Viewport start column.	Scr	int	RT, no Web
vstline	Viewport start line.	Scr	int	RT, no Web
wallpaper_pixmap	Screen's wallpaper pixmap filename in GUI, and BACKGROUND attribute in Web applications.	Scr	str	GUI, Web
wallpaper_style	Screen's wallpaper display: centered or tile.	Scr	PV_CENTER PV_TILE	GUI, wallpaper_pixmap = string

## Property Descriptions

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Property	Description	Object	Value	Constraint
web_alt_as_tooltips	When <a href="#">web_use_tooltips</a> and this property are both set to PV_YES, only the <a href="#">label</a> property will be used for the title attribute.	App	PV_YES PV_NO	Web
web_generate_ids	Bitmask that can cause id= attributes to be generated for specified widgets.	App	PV_WEB_IDS_NONE Default PV_WEB_IDS_HIDDEN for hidden widgets PV_WEB_IDS_NAMED for named widgets PV_WEB_IDS_SPAN <span> tags generaed for SL's; DL's and focus protected grid members. PV_WEB_IDS_DIV <div> tags generaed for focus protected MLT's. PV_WEB_IDS_TABLE <table> tags generaed for named boxes and grids. PV_WEB_IDS_IMG for <img> and <input type=image> widgets PV_WEB_IDS_OTHER for other widgets PV_WEB_IDS_ALL for all widgets.	Web New in Panther 5.51.

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## Property Descriptions

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Property	Description	Object	Value	Constraint
web_old_template_msgs	When set to PV_YES, messages will be displayed in the HTML generated from HTML templates and the <code>{{form:messages}}</code> template tag will be ignored.	App	PV_YES PV_NO	Web. New in Panther 5.51
web_use_tooltips	When set to PV_YES, widgets that have the <code>tooltip_text</code> or the <code>label</code> property will get the <code>title</code> attribute in the generated HTML.	App	PV_YES PV_NO	Web
webid	Name of the next cache file to be generated by the Web application server.	App	str	Web

## Property Descriptions

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Property	Description	Object	Value	Constraint
where_operator	Operator to use in WHERE condition.	Wdg	PV_WHERE_EQUAL PV_WHERE_GREATER PV_WHERE_IN PV_WHERE_LESS PV_WHERE_LIKE PV_WHERE_LIKE_R PV_WHERE_LIKE_LR PV_WHERE_NONE PV_WHERE_NOT_EQUAL PV_WHERE_NOT_GREATER PV_WHERE_NOT_IN PV_WHERE_NOT_LESS PV_WHERE_NOT_LIKE PV_WHERE_NOT_LIKE_R PV_WHERE_NOT_LIKE_LR	<a href="#">use_in_where</a> = PV_YES
where_use_if_null	Whether or not null value is included in WHERE condition.	Wdg	PV_YES PV_NO	<a href="#">use_in_where</a> = PV_YES

## Property Descriptions

Property	Description	Object	Value	Constraint
widget_type	Object type. Value corresponds to object type as listed. Types for widgets appears in next entry.	App Scr	PV_APPLICATION PV_SCREEN	RT, RO
	Widget type	Wdg Sync TV SelGrp	PV_DYNAMIC_LABEL PV_SINGLE_LINE_TEXT PV_MULTILINE_TEXT PV_PUSH_BUTTON PV_TOGGLE_BUTTON PV_RADIO_BUTTON PV_CHECK_BOX PV_OPTION_MENU PV_LIST_BOX PV_LINK PV_HORIZONTAL_SCALE PV_VERTICAL_SCALE PV_COMBO_BOX PV_BOX PV_HORIZONTAL_LINE PV_VERTICAL_LINE PV_GRID_FRAME PV_GRAPH PV_REPORT_AREA PV_BLOB_DATA PV_CARD PV_DECK PV_STATIC_LABEL PV_SYNC_GROUP PV_TABLE_VIEW PV_GROUP PV_ACTIVEX	RO

Property	Description	Object	Value	Constraint
width	Horizontal size	Scr SrvCom Wdg	str; grid units (g) by default, characters (c), inches (in), millimeters (mm), or pixels (p).	No Web
word_wrap	Whether or not text should word wrap	Wdg	PV_YES PV_NO	<code>widget_type = PV_MULTILINE_TEXT</code> . Word wrap behavior varies on each platform and on Web browsers.
x_axis_label	Text associated with x axis of graph.	Wdg	str	GUI, Web, <code>chart_type = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW</code>
x_axis_label_location	Location for x axis label in relation to graph.	Wdg	str	GUI, Web, <code>chart_type = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW</code>
x_axis_location	Location of x axis in graph.	Wdg	PV_EDGE PV_OPPOSITE_EDGE PV_ZERO PV_NONE	GUI, Web, <code>chart_type = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW</code>
x_axis_maximum	Maximum number of data values that can be plotted along x axis of graph.	Wdg	str	GUI, Web, <code>chart_type = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW</code>
x_axis_minimum	Minimum number of data values that can be plotted along x axis of graph.	Wdg	str	GUI, Web, <code>chart_type = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW</code>

## Property Descriptions

Property	Description	Object	Value	Constraint
x_axis_scale	Scale type for x axis values in graph.	Wdg	PV_LINEAR PV_COMMON_LOG	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
x_tick_grid_style	Grid style tick marks along x axis of graph.	Wdg	PV_SOLID PV_DASHED PV_DOTTED PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
x_tick_label_source	Source/values for labels associated with tick marks along x axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
x_tick_major_increment	Increment between major (larger) tick marks along x axis of graph.	Wdg	str (>0)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
x_tick_minor_increment	Increment between minor (smaller) tick marks along x axis of graph.	Wdg	str (>0)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
x_tick_style	Tick mark style for x axis of graph.	Wdg	PV_IN PV_OUT PV_BOTH PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
x_tick_width	Tick mark width for x axis of graph.	Wdg	str (0 .. 100)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW



Property	Description	Object	Value	Constraint
<code>x_value_source[int]</code>	Data value source for a given data series (up to 12).	Wdg	str	GUI, Web, <code>chart_type</code> = PV_XY_PLOT, <code>y_value_source[int]</code> = str
<code>xml_attributes</code>	Attributes for XML	Wdg Scr	str	
<code>xml_import_error</code>	PV_YES if the most recent import of XML data failed	App	PV_YES PV_NO	
<code>xml_prefix</code>	String to output before XML tag	Wdg Scr	str	
<code>xml_postfix</code>	String to output after XML tag	Wdg Scr	str	
<code>xml_tag</code>	Tag to assign to widget or screen in XML	Wdg Scr	str	
<code>xml_utf8_data</code>	UTF-8 data from import or to export	Wdg	str	RT
<code>xy_style</code>	Style for XY plot data series.	Wdg	PV_CURVE PV_LINE PV_POINT	GUI, Web, <code>chart_type</code> = PV_XY_PLOT and <code>y_value_source[int]</code> = str
<code>y1_axis_label</code>	Text associated with y1 axis of graph.	Wdg	str	GUI, Web, <code>chart_type</code> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW

## Property Descriptions

Property	Description	Object	Value	Constraint
yl_axis_label_location	Location for y1 axis label in relation to graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
yl_axis_location	Y1 axis location in graph.	Wdg	PV_EDGE PV_OPPOSITE_EDGE PV_ZERO PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
yl_axis_maximum	Maximum number of data values that can be plotted along y1 axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
yl_axis_minimum	Minimum number of data values that can be plotted along y1 axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
yl_axis_scale	Scale type for y1 axis values of graph.	Wdg	PV_LINEAR PV_COMMON_LOG	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
yl_tick_grid_style	Grid style tick marks along y1 axis of graph.	Wdg	PV_SOLID PV_DASHED PV_DOTTED PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
yl_tick_label_source	Source/values for labels associated with tick marks along y1 axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW

Property	Description	Object	Value	Constraint
y1_tick_major_increment	Increment between major (larger) tick marks along y1 axis of graph.	Wdg	str (>0)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y1_tick_minor_increment	Increment between minor (smaller) tick marks along y1 axis of graph.	Wdg	str (>0)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y1_tick_style	Tick mark style for y1 axis of graph.	Wdg	PV_IN PV_OUT PV_BOTH PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y1_tick_width	Tick mark width for y1 axis of graph.	Wdg	str (0 .. 100)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_axis_label	Text associated with y2 axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_axis_label_location	Location for y2 axis label in relation to the graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_axis_location	Y2 axis location in graph.	Wdg	PV_EDGE PV_OPPOSITE_EDGE PV_ZERO PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW

## Property Descriptions

Property	Description	Object	Value	Constraint
y2_axis_maximum	Maximum number of data values that can be plotted along y2 axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_axis_minimum	Minimum number of data values that can be plotted along y2 axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_axis_scale	Scale type for y2 axis values of graph.	Wdg	PV_LINEAR PV_COMMON_LOG	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_tick_grid_style	Grid style tick marks along y2 axis of graph.	Wdg	PV_SOLID PV_DASHED PV_DOTTED PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_tick_label_source	Source/values for labels associated with tick marks along y2 axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_tick_major_increment	Increment between major (larger) tick marks along y2 axis of graph.	Wdg	str (>0)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
y2_tick_minor_increment	Increment between minor (smaller) tick marks along y2 axis of graph.	Wdg	str (>0)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW

Property	Description	Object	Value	Constraint
<code>y2_tick_style</code>	Tick mark style for y2 axis of graph.	Wdg	PV_IN PV_OUT PV_BOTH PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y2_tick_width</code>	Tick mark width for y2 axis of graph.	Wdg	str (0 .. 100)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_axis[int]</code>	Y axis against which data in series (int) is plotted in graph.	Wdg	PV_Y1 PV_Y2	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW and <a href="#">y_value_source[int]</a> = str
<code>y_axis_label</code>	Text associated with y axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_axis_label_location</code>	Location for y axis label in relation to graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_axis_location</code>	Y axis location in graph.	Wdg	PV_EDGE PV_OPPOSITE_EDGE PV_ZERO PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_axis_maximum</code>	Maximum number of data values that can be plotted along y axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW

## Property Descriptions

---

Property	Description	Object	Value	Constraint
<code>y_axis_minimum</code>	Minimum number of data values that can be plotted along y axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_axis_scale</code>	Scale type for y axis values of graph.	Wdg	PV_LINEAR PV_COMMON_LOG	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_tick_grid_style</code>	Grid style tick marks along y axis of graph.	Wdg	PV_SOLID PV_DASHED PV_DOTTED PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_tick_label_source</code>	Source/values for labels associated with tick marks along y axis of graph.	Wdg	str	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_tick_major_increment</code>	Increment between major (larger) tick marks along y axis of graph.	Wdg	str (>0)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_tick_minor_increment</code>	Increment between minor (smaller) tick marks along y axis of graph.	Wdg	str (>0)	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_tick_style</code>	Tick mark style for y axis of graph.	Wdg	PV_IN PV_OUT PV_BOTH PV_NONE	GUI, Web, <a href="#">chart_type</a> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW

Property	Description	Object	Value	Constraint
<code>y_tick_width</code>	Tick mark width for y axis of graph.	Wdg	str (0 .. 100)	GUI, Web, <code>chart_type</code> = PV_BAR   PV_XY_PLOT   PV_HIGH_LOW
<code>y_value_source[int]</code>	Y value source for given data series in XY plot graph, either the name of an array containing data, or a list of values.	Wdg	str	GUI, Web, <code>chart_type</code> = PV_XY_PLOT
<code>zero_format</code>	Whether or not format should be applied to data when it is zero.	Wdg	PV_YES PV_NO	<code>data_formatting</code> = PV_NUMERIC

1.

## Accessing Properties

`objectName->propertySpec`

or

`@objectModifier(objectIdentifier)->propertySpec`

## Object Identifiers

The object modifiers and their arguments are described in the table below. Values for the object identifiers are either integers or strings, and can be in the form of variables, expressions, or quoted text for string values.

**Table 1-4 Object Identifiers**

<b>Object modifier</b>	<b>Object identifier</b>
@app	None. The current program object identifier is always specified as @app( ).
@field_num	Widget's field number on a screen (on the window stack or in an active LDB), specified as an integer value.
@id	Integer handle of any application object; obtained via the object's id property, or by calling <a href="#">sm_prop_id</a> .
@ldb	Name (string value) of an LDB screen.
@screen	Name (string value) of a Panther screen on the window stack. Use @current to specify the current window.
@screen_num	Number of a screen on the window stack. An integer value as follows: 0: active screen; n<0: nth screen below active screen; n>0: nth screen above base (n=1) window.
@tp_req	String identifier (callid) associated with a service request. The identifier is stored in the tp_return application property immediately after a service call is initiated. To specify the current service, use @current as a string.
@widget	Name (string value) of widget or group on a screen that is on the window stack or in an active LDB. To specify the current widget, supply @current as a string. Subscripts to widgets can refer to the occurrence (single brackets) or the array element (double brackets).



## Property Specification

### JPL

In JPL, access the properties via:

```
objectSpec->propertySpec
```

where `propertySpec` is specified as either:

- the literal property mnemonic; for example:

```
@screen("@current")->title
myscreen->title
```

- the property modifier `@property`; for example:

```
@screen("myscreen")->@property("title")
or, similarly:
myscreen->@property("title")
```

### Arrays

If the property is an array, specify the occurrence:

```
pkey2 = tapes->primary_key[2]
```

In widget arrays, subscripted references return the value of the specified occurrence `[n]` or array element `[[n]]`; non-subscripted references return the first element. Thus, these two statements put the same data into variable `cust`

```
cust = @widget("customer")[[1]]
cust = @widget("customer")
```

To get portions of an object's value, append substring specifiers to the object's reference. For example, this statement gets the first eight characters from customer's second occurrence:

```
cust = @widget("customer")[2](1, 8)
```

### C Functions

In C, access the properties via:

- `sm_prop_id` – get the object id
- `sm_prop_get` – get a property value
- `sm_prop_set` – set a property value

`sm_prop_id` is not needed for the application or for the current screen. Use `PR_APPLICATION` as the object ID for the application; `PR_CURSCREEN` for the current screen.

The property constants used in the C functions are derived by converting the property name to upper case and prepending `PR_`. For example, the equivalent constant for `max_occurrences` is `PR_MAX_OCCURRENCES`. There are a few exceptions; those properties are marked with a `$` in the property categories.

The following example returns the value of the hidden property for the `cust_id` widget on the `custlist` screen:

```
int objid, val;
objid = sm_prop_id
```

```
("@screen('custlist')!@widget('cust_id')");  
val = sm_prop_get_int(objid, PR_HIDDEN);
```

For more information on accessing properties, refer to [page 19-33](#), “Setting Properties Using the Property API,” in *Application Development Guide*.

Properties marked with \$, as in `poll_frequency$`, have a different C constant. See the main section.

---

# Application Properties

---

**Access:**

`@app()->property`

`agent_type`

`argc`

`argv[int]`

`auto_resize_ex_paths`

`auto_resize_no_touch`

`bold`

`codeset`

`conn_pool_size`

`control_string[logKey]`

`current_component_system`

`default_row_margin`

`devserv_id`

`display_codepage`

`drop_down_trim_empty`

`endsession`

`extra_line_size_check`

`field_below[int]`

`font_name`

`hdl_advertise`

`hdl_exception`

`hdl_jif_changed`

`hdl_message`

`hdl_post_request`

`hdl_post_service`

`hdl_pre_request`

`hdl_pre_service`

`hdl_request_received`

`hdl_server_exit`

`hdl_unadvertise`

`hdl_unload`

`hook_app_focus_change`

`html_max_loop`

`html_max_nest`

`id`

`in_gui`

`in_server`

`in_web`

`in_zoom`

`italic`

java_use_codeset	tm_ansi_outer_joins
max_bundles	tm_clear_fast
max_fetches	tm_scope
max_rows_per_fetch	tm_server_view
maximize_no_reposition	tm_transaction
mouse_field	toolbar_allowed_sites
mouse_field_name	toolbar_current_site
mouse_field_occ	toolbar_hidden
mouse_form_name	toolbar_x_position
num_fields_below	toolbar_y_position
num_svs_below	tooltip_style
num_tvs_below	tp_async_poll_interval§
old_ax_initialize	tp_block
old_shrink_algorithm	tp_commit_return
point_size	tp_exc_code
poll_frequency§	tp_exc_msg
previous_form	tp_exc_names
primary_key_update	tp_mon_exc_code
provider_url	tp_mon_exc_msg
queryendsession	tp_return
regenerate_ins_sql	tp_severity
regenerate_upd_sql	tp_severity_names
report_no_color	tp_signal_restart
sv	tp_svc_cache_size
sv_below[int]	tp_svc_outcome
three_d§	tp_svc_return
title	tp_this_call
tm_ansi_joins	tp_timeout

<code>tp_tran_level</code>	<code>web_alt_as_tooltips</code>
<code>tp_tran_status</code>	<code>web_generate_ids</code>
<code>tp_unsol_poll_interval\$</code>	<code>web_old_template_msgs</code>
<code>tv_below[int]</code>	<code>web_use_tooltips</code>
<code>underlined</code>	<code>webid</code>
<code>view_full_page\$</code>	<code>widget_type</code>

---

## Screen and Frameset Properties

---

### Access:

```
screenName->property  
@screen("screenName")->property  
@screen("@current")->property  
@screen_num(windowStackPosition)->property  
@ldb("ldbName")->property
```

### Identity

```
dialog  
fldnum  
frameset  
id
```

```
java_tag  
keep_in_frame  
keep_on_top  
memo1...memo9  
mnemonic_position  
name  
numflds  
numgrps  
pane  
parent_window  
screen_type  
sibling  
splitter
```

three\_d\$  
title

## Geometry

grid\_height  
grid\_width  
height  
max\_min  
min\_horiz\_space  
min\_vert\_space  
region\_margin  
resize\_function  
resizeable  
startup  
vncolms  
vnlines  
vofcolm  
vofline  
vstcolm  
vstline  
width

## Color

bg\_color\_name

bg\_color\_num  
bg\_color\_type

## Font

bold  
font\_name  
italic  
point\_size  
underlined

## Focus

control\_string[logkey]  
entry\_function  
exit\_function  
menu\_name  
menu\_script\_file

## Help

external\_help\_tag  
help\_screen  
popup\_menu  
status\_line\_text

## Display

blink  
border  
border\_bg\_color\_name  
border\_bg\_color\_num  
border\_bg\_color\_type  
border\_fg\_color\_name  
border\_fg\_color\_num  
border\_fg\_color\_type  
border\_style  
close\_item  
dim  
icon  
pointer  
reverse  
system\_menu  
title\_bar  
wallpaper\_pixmap  
wallpaper\_style

## Transaction

default\_tran  
fetch\_directions  
model  
root

## Web

display\_window  
secure\_post  
stylesheet\_data  
stylesheet\_link  
stylesheet\_source  
stylesheet\_type  
target\_default

## HTML options

body\_attributes  
form\_attributes  
head\_markup  
html\_template

## Browser options

javascript  
on\_load  
on\_submit  
on\_unload  
vbscript

---

## XML Properties

---

xml\_attributes  
xml\_postfix

xml\_prefix  
xml\_tag

---

## Service Component Properties

---

### Identity

java\_tag  
memo1...memo9  
screen\_type  
title

### Geometry

height  
width

### Procedures

entry\_function



`exit_function`

`model`

`root`

## Transaction

`fetch_directions`

---

# Service Request Properties

---

### Access:

`call_text`

`@tp_req(callid)->property`  
`@tp_req("@current")->property`

`call_client`  
`call_in_transaction`  
`call_initial_text`  
`call_no_reply`  
`call_origin`  
`call_priority`  
`call_security_key`  
`call_svc_alias`  
`call_svc_name`

---

# Widget Properties

---

## Access:

`widgetName->property`

If the widget's name is not unique in the current namespace:

`@widget("widgetName")->property`

`@widget("@current")->property`

`@field_num(widgetFieldNum)->property`

## Identity

`active`

`bi_string`

`c_type`

`card`

`card_number`

`column_title`

`comments`

`conceal_tabs`

`deck`

`default_cancel`

`di_string`

`drop_down_data[int]`

`drop_down_screen`

`drop_down_size`

`drop_down_source`

`fldnum`

`grid`

`grid_column`

`grid_current_occ`

`group`

`hidden`

`id`

`initialization`

`java_tag`

`justification`

`label`

`line_style`

`listbox_type`

`member`

`memol...memo9`

`mnemonic_character`

`mnemonic_position`

name  
num\_del\_images  
number\_of\_cards  
precision  
sign  
sync\_group  
tableview  
topmost\_card  
widget\_type

## Geometry

alt\_scroll\_func  
array\_size  
auto\_horiz\_resize  
auto\_vert\_resize  
circular  
column\_move\_resize  
current\_offset  
end\_column  
end\_row  
first\_occurrence  
grid\_current\_occ  
height  
hor\_scroll\_bar  
horiz\_anchor  
horiz\_max\_size

horiz\_min\_size  
horizontal  
length  
max\_data\_length  
max\_occurrences  
num\_occurrences  
onscreen\_columns  
onscreen\_rows  
position\_region  
row\_margin  
scroll\_increment  
scrolling  
shift\_increment  
size\_to\_contents  
spacing  
start\_column  
start\_row  
vert\_max\_size  
vert\_min\_size  
vert\_scroll\_bar  
vertical\_anchor  
width

## Positioning

horiz\_shrinking  
min\_horiz\_space

min\_vert\_space  
region\_margin  
vert\_shrinking

## Color

bg\_color\_name  
bg\_color\_num  
bg\_color\_type  
blink  
dim  
fg\_color\_name  
fg\_color\_num  
fg\_color\_type  
reverse

## Font

bold  
font\_name  
italic  
point\_size  
underlined

## Focus

alt\_next\_tab\_stop  
alt\_prev\_tab\_stop  
autotab  
card\_entry\_func  
card\_exit\_func  
entry\_function  
exit\_function  
expose\_function  
focus\_protection  
hide\_function  
next\_tab\_stop  
prev\_tab\_stop  
row\_entry\_func  
row\_exit\_func  
selected  
tab\_entry\_func  
tab\_exit\_func

## Help

auto\_help  
auto\_item  
external\_help\_tag  
help\_screen  
popup\_menu

popup\_script\_file  
selection\_screen  
status\_line\_text  
tooltip\_text

## Input

all\_protect  
clearing\_protect  
convert\_case  
edit\_mask  
input\_protection  
keystroke\_filter  
maximum\_value  
minimum\_value  
must\_fill  
reg\_exp\_filter  
regular\_exp  
required  
select\_on\_entry  
table\_lookup

## Validation

calculation  
control\_string

double\_click  
mdt  
no\_validation  
validation\_func  
validated

## Format/Display

active\_pixmap  
armed\_pixmap  
border  
border\_style  
clock\_type  
column\_click\_action  
column\_click\_func  
column\_separators  
column\_titles  
currency\_symbol  
custom\_format  
customer\_drawn  
data\_formatting  
date\_format  
decimal\_places  
decimal\_symbol  
empty\_format  
fill\_character  
frequency

frozen\_columns  
inactive\_pixmap  
justification  
max\_decimals  
min\_decimals  
null\_field  
null\_text  
numeric\_type  
password\_char  
password\_field  
placement  
repeating  
rounding  
row\_separators  
row\_titles  
sort\_order  
sort\_order\_func  
stripe\_current\_row  
style  
system\_update  
thousand\_sep  
title  
word\_wrap  
zero\_format

## Transaction

class  
synchronization

## Database

column\_name  
validation\_link  
version\_column

## Fetch data

group\_by  
having  
select\_expression  
select\_force\_valid  
select\_set\_valid  
sv  
tv  
use\_in\_select  
use\_in\_where  
where\_operator  
where\_use\_if\_null

## New data

`insert_expression`  
`use_in_insert`

## Change data

`in_update_where`  
`update_expression`  
`use_in_update`

## Remove data

`in_delete_where`

## Column Edits

`length`  
`precision`  
`scale`  
`type`

## Web

`auto_expand`  
`default_link`

`export_to_html`  
`html_name`  
`image_map`  
`ins_del_buttons`  
`item_link`  
`keep_image_size`  
`radio_buttons`  
`scroll_buttons`  
`submit`  
`target`

## HTML options

`attributes`  
`link_attributes`  
`prefix_markup`  
`suffix_markup`

## Browser options

`javascript`  
`on_blur`  
`on_change`  
`on_click`  
`on_focus`  
`on_mouse_out`  
`on_mouse_over`  
`on_select`

vbscript

## XML

xml\_attributes  
xml\_postfix  
xml\_prefix  
xml\_tag  
xml\_utf8\_data

## Graphs

### General

bar\_chart\_type  
chart\_3d  
chart\_type  
depth  
horiz\_rotation  
orientation  
subtitle  
subtitle\_text\_size  
text\_size  
title  
title\_text\_size  
vert\_rotation

### Graph data

bar\_style  
data\_basic\_color  
data\_value\_location  
legend[int]  
line\_style[int]  
line\_width[int]  
point\_marker[int]  
x\_value\_source[int]  
xy\_style  
y\_axis  
y\_value\_source[int]

### Pie

pie\_diameter  
pie\_direction  
pie\_start\_angle  
pie\_x\_position  
pie\_y\_position

### Pie segments

seg\_label\_location  
seg\_label\_source  
seg\_percent\_location  
seg\_style\_source



seg\_value\_location

## Graph legend

legend\_border\_width  
legend\_in\_data\_space  
legend\_placement  
legend\_text\_size  
legend\_title  
legend\_x\_anchor  
legend\_x\_location  
legend\_x\_position  
legend\_y\_anchor  
legend\_y\_location  
legend\_y\_position

## Axis

x\_axis\_label  
x\_axis\_label\_location  
x\_axis\_location  
x\_axis\_maximum  
x\_axis\_minimum  
x\_axis\_scale  
y1\_axis\_label  
y1\_axis\_label\_location  
y1\_axis\_location  
y1\_axis\_maximum

y1\_axis\_minimum  
y1\_axis\_scale  
y2\_axis\_label  
y2\_axis\_label\_location  
y2\_axis\_location  
y2\_axis\_maximum  
y2\_axis\_minimum  
y2\_axis\_scale  
y\_axis\_label  
y\_axis\_label\_location  
y\_axis\_location  
y\_axis\_maximum  
y\_axis\_minimum  
y\_axis\_scale

## Tick marks

x\_tick\_grid\_style  
x\_tick\_label\_source  
x\_tick\_major\_increment  
x\_tick\_minor\_increment  
x\_tick\_style  
x\_tick\_width  
y1\_tick\_grid\_style  
y1\_tick\_label\_source  
y1\_tick\_major\_increment  
y1\_tick\_minor\_increment  
y1\_tick\_style

`y1_tick_width`  
`y2_tick_grid_style`  
`y2_tick_label_source`  
`y2_tick_major_increment`  
`y2_tick_minor_increment`  
`y2_tick_style`  
`y2_tick_width`

`y_tick_grid_style`  
`y_tick_label_source`  
`y_tick_major_increment`  
`y_tick_minor_increment`  
`y_tick_style`  
`y_tick_width`

---

## Splitter Properties

---

### Access:

`widgetName->property`  
`@widget("widgetName")->property`  
`@widget("@current")->property`

### Identity

`frameset`  
`splitter`

### Geometry

`splitter_col_width`  
`splitter_cols`  
`splitter_row_height`  
`splitter_rows`

---

# Pane Properties

---

## Access:

```
widgetName->property  
@widget("widgetName")->property  
@widget("@current")->property
```

## Identity

```
frameset  
splitter
```

## Geometry

```
pane_col  
pane_index  
pane_row
```

## Contents

```
pane_screen
```

---

# ActiveX Control Properties

---

## Access:

```
widgetName->property
```

```
@widget("widgetName")->property  
@widget("@current")->property
```

```
@widget("widgetName")->ax_ActiveX_property  
@widget("@current")->ax_ActiveX_property
```

In the Editor, the Control Props category (under ActiveX) shows the ActiveX control's properties.

## ActiveX

`clsid`

`control_name`  
`runtime_license`  
`show_status_text`

## Web

`codebase`

---

# Selection Group Properties

---

## Access:

```
widgetName->property  
@widget("widgetName")->property  
@widget("@current")->property
```

`memo1...memo9`  
`name`  
`num_of_selections`  
`precision`  
`sign`

## Identity

`c_type`  
`id`

## Geometry

`num_occurrences`

## Focus

`alt_next_tab_stop`  
`alt_prev_tab_stop`  
`entry_function`

`exit_function`  
`next_tab_stop`  
`prev_tab_stop`  
`mdt`  
`validation_func`  
`validated`

---

# Synchronized Scrolling Group Properties

---

## Access:

`widgetName->property`  
`@widget("widgetName")->property`  
`@widget("@current")->property`

## Identity

`id`  
`memo1...memo9`  
`name`  
`widget_type`

## Geometry

`array_size`  
`circular`  
`max_occurrences`  
`num_occurrences`  
`scroll_increment`

---

# Table View Properties

---

## Access:

```
widgetName->property  
@widget("widgetName")->property  
@widget("@current")->property
```

## Identity

```
id  
memo1...memo9  
name  
widget_type
```

## Transaction

```
function  
model  
updatable
```

## Database

```
columns[int]  
del_func_name  
delete_handling  
ins_func_name  
insert_handling  
primary_key[int]  
regenerate_ins_sql  
regenerate_upd_sql  
save_func_name  
table  
upd_func_name  
update_handling
```

## Server View

```
continue_func_name  
count_result  
count_select
```

count\_threshold  
count\_warning  
distinct  
fetch\_directions  
sel\_func\_name  
select\_handling  
sort\_widgets

## Service

delete\_service  
insert\_service  
select\_service  
update\_service

## Traversal

bi\_status[int]  
child[int]  
field[int]  
field\_below[int]  
key\_constant[int]  
key\_field[int]  
num\_children  
num\_fields  
num\_fields\_below

num\_key\_columns  
num\_sorts  
num\_sv\_fields  
num\_svs\_below  
num\_tvs  
num\_tvs\_below  
parent  
parent\_link  
source\_occ  
sv  
sv\_below[int]  
sv\_field[int]  
tv[int]  
tv\_below[int]

---

# Link Widget Properties

---

## Access:

```
widgetName->property  
@widget("widgetName")->property  
@widget("@current")->property
```

## Identity

```
id  
memo1...memo9  
name  
widget_type
```

## Transaction

```
child  
delete_order  
insert_order  
join_type  
parent
```

```
relations[int]  
type  
update_order
```

## Service

```
validation_service
```

## Traversal

```
num_relations
```



---

# Reports Properties

---

## Access:

```
nodeName->property  
@widget("nodeName")->property
```

## Detail node

```
root$  
sql_statement$  
cursor_and_using$
```

## Group node

```
break_on$
```

## Call node

```
function_call$
```

## **Print node**

`area§`

## **Subreport node**

`report_invocation§`

Properties marked with §, as in `poll_frequency§`, have a different C constant. See the main section.

---

# **Mail Properties**

---

## **Access:**

```
@id(PR_MAIL_SYSTEM)->property
@id(messageObjectID)->property
mailName->property
```

## **PR\_MAIL\_SYSTEM Properties**

```
mail_bcc
mail_cc
mail_connected
mail_flags
```

mail\_from  
mail\_password  
mail\_port  
mail\_profile  
mail\_receipt  
mail\_replyto  
mail\_server  
mail\_subject  
mail\_to  
mail\_username

## **Mail Object Properties**

mail\_attachment\_delete  
mail\_attachment\_encoding  
mail\_attachment\_filename  
mail\_attachment\_pathname  
mail\_attachment\_tag  
mail\_bcc  
mail\_cc  
mail\_from  
mail\_receipt  
mail\_replyto  
mail\_subject  
mail\_text  
mail\_to

name





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