Getting Started with the XRT Professional Developer's Suite™



260 King Street East
Toronto, Ontario, Canada M5A 4L5
(416) 594-1026
www.sitraka.com

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Welcome to the XRT PDS

Introduction ■ *XRT/3d* ■ *XRT/field*
XRT/gauge ■ *XRT/gear* ■ *XRT/graph*
XRT/table ■ *XRT/pageformatter*
Model View/Control Kit for XRT Widgets

Introduction

Sitraka's XRT Professional Developer's Suite (PDS) integrates our six most popular Motif widget products into a single, easy-to-use, affordable suite. XRT widgets are used by tens of thousands of professional developers around the world to build informative, attractive and functional user interfaces.

PDS is:

- Easy to use (directly programmed through resources and/or resource files, uses the same API as standard Motif widgets).
- Low cost (no run-time fees or royalties for distribution in your end-user applications).
- Fully interactive.
- Designed to save your development team hundreds or even thousands of hours of programming at the Xlib layer.
- Designed to work with a variety of X displays.
- Available on over 14 UNIX and OpenVMS architectures.
- Adaptable to your environment, working with ANSI C, Kernighan and Ritchie C, and C++.
- Based on the open object-oriented architecture used by the Xt Intrinsics and OSF/Motif, so it fits seamlessly into your X Window development environment.
- Subclassed from the Motif Primitive and Manager classes, so it can be used anywhere other widgets of these classes can be used.
- Integrated with the native toolkit (Motif).
- Easy to integrate with popular GUI Builder tools.

XRT PDS is composed of the following products:

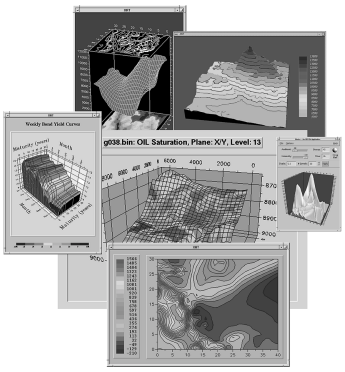
XRT/3d	A powerful three- and four-dimensional graph component that displays a scalable and rotatable 3D surface, optionally containing contours and zones. Scatter plots can also be drawn.
XRT/field	A useful package of type-specific text entry components that can validate and convert their data, plus combo box, spin box and calendar widgets that make it easy for users to select an item from a list of alternatives or a date from a day grid.
XRT/gauge	XRT/gauge includes seven highly customizable dials and gauges Motif widgets that measure and display the value of a property or attribute.
XRT/gear	A collection of widgets and utilities that make your applications more visually appealing, intuitive and easy to use.
XRT/graph	A highly flexible two-dimensional graph component that lets you add plots, area graphs, bar, stacking bar, pie charts and others to your applications.
XRT/table	An adaptable table component that lets you display text, pixmaps and widgets in a tabular format that users can edit, scroll or resize.
XRT/pageformatter	A set of methods and procedures for adding paginated, formatted, flowed-text and image output to UNIX applications.
MVC Kit for XRT Widgets	Software that lets you easily create multiple dynamic views of a single set of data in XRT/graph, XRT/table or XRT/3d.
Integrations	Integrations with all popular GUI Builder tools, including Builder Xcessory, TeleUSE, UIM/X, X-Designer and SPARCworks/Visual.

PDS includes a full set of over 1,800 pages of printed documentation, all available online in Acrobat PDF format.

XRT/3d

Powerful 3D surface, contour, bar and scatter plot graph widget

With XRT/3d you can easily build 3D data display and interaction into your Motif applications. XRT/3d creates informative and eye-catching 3D surface plots, contour graphs, bar charts and scatter plots from your data. The XRT/3d widget automatically performs all rotation, scaling, annotation and perspective calculations. And since XRT/3d draws on the screen using the same low-level X Window System primitives as Motif, no special hardware is required — your applications will display on any X11R5/R6 Windowing Server, from high-end workstations to X-terminals, to PCs running X Server software.



XRT/3d has resources that allow control of:

- Drawing (whether to draw the mesh, surface, contours, zones and drop lines) and graph type (surface, bar chart or scatter plot).
- Contour styles: line widths, colors and patterns, and fill colors.
- Distribution method, distribution table and number of distribution levels.
- Hidden-line display, surface colors and mesh colors.
- 3D rotation and perspective.
- Legend positioning, orientation, style, border style, text, distribution, titles, font and color.
- Header and footer positioning, border style, text, font and color.
- Graph positioning, border style, color, width and height.
- Axis maximums and minimums, fonts, gridlines, titles and labels.
- Window background and foreground color.
- Widget, graph, header, footer, legend and text object background images.

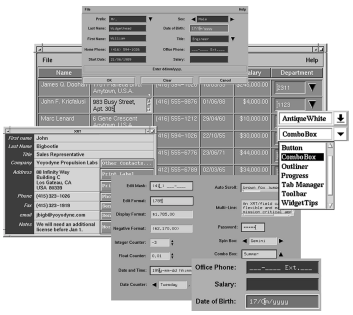
XRT/3d also provides several procedures and methods which:

- Allocate and load data structures containing the numbers to be graphed.
- Output a representation of the graph in PostScript or CGM format, as well as (using the new PDS Utility Library) output to JPEG, PNG or any other user-defined image type.
- Help you deal with user-events.
- Help you deal with interactive rotation, zooming and shifting of the 3D view by the end-user.
- Help you set and get indexed resources.

XRT/field

The easiest way to build professional data-entry fields in Motif

With XRT/field, you can build data-entry forms much faster and easier than with Motif's text widget XmText. XRT/field is an integrated collection of widgets that supports:



- Automatic validation (using masks, data types, ranges or pick lists).
- Auto matching completion.
- Automatic conversion of entered values.
- Separate edit and display formats.
- Value conversion to an easy-to-use string, date, integer or float.
- Automatic scrollbars.

- Many other features designed to make building data-entry forms easier.

The XRT/field widget family consists of four widget classes:

1. XrtField and its subclasses, which store and manipulate text entered by the user.
2. XrtComboBox, which allows users to choose an item from a pick list.
3. XrtSpinBox, which can be used to increment numeric values or cycle through a pick list.
4. XrtCalendar, which can be used on its own or as a date editor popup to select dates using the day grid, spin boxes, or a combination of the two.

The XrtField widget class provides the following capabilities:

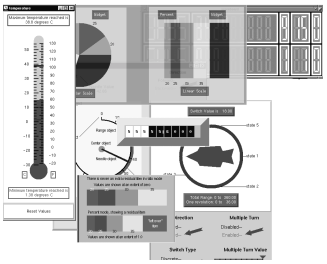
- Validation: data can be validated using masks, data types, value ranges or pick lists.
- Conversion: values can be converted using callback routines.
- Completion: partial values can be completed using callback routines, pick lists or auto matching completion.
- Format specification: you can specify the edit and display format for the value.
- Enter, exit, validation and error-detection callback routines can be used by applications.
- You can specify which input characters are to be treated as valid or invalid.
- Built-in scrollbars can be displayed as needed.

XrtField widgets also inherit the features of the XmText widget.

An XrtComboBox widget can control the placement and widget class of its child arrow widget.

XRT/gauge

Highly customizable dials and gauges for Motif



XRT/gauge is a comprehensive collection of Motif widgets, comprising seven dials and gauges. XRT/gauge enables you to quickly build high-quality control panels, data displays, process controls and simulation environments. Developed by Motif experts, XRT/gauge widgets are highly customizable and therefore ideal for environments with very specialized requirements such as aerospace, manufacturing or defense. XRT/gauge widgets measure the value of a property or attribute and display this information in a format appropriate to the particular application environment. These widgets provide functionality unavailable in Motif and can greatly enhance new or existing applications.

XRT/gauge lets you do more than just display dials and gauges; users can drive the application through some of the widgets. For example, with XRT/gauge user interaction routines, you can easily build an application that lets end-users adjust a dial interactively, or manipulate orientation (horizontal, vertical) and direction (forward, backward).

With XRT/gauge, Motif developers can customize all aspects of information display, including style, color, range, and much more. In addition, XRT/gauge widgets feature customizable origin position, start & stop angle, and min & max values.

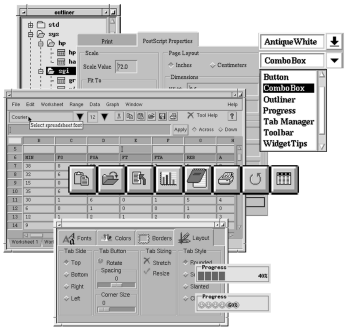
Why build from scratch when you can rely on XRT/gauge for a comprehensive collection of widgets to deliver cost-effective interface development?

XRT/gauge includes this comprehensive set of components:

- Circular Gauge: The Circular Gauge widget measures the value of a property or attribute and displays it in a circular manner using a needle.
- Circular Dial: The circular dial is a switch/knob-like widget that controls the value of a single property.
- Linear Dial: The Linear Dial widget is a linear scale/slider that controls the value of a single property with On/Off regions.
- Linear Gauge: The Linear Gauge widget measures the value of a property and displays it in a linear manner using an indicator.
- LED Icon: The LED Icon widget displays an array on icons in an on/off manner. The state of the led icon (on/off) portrays the state of a particular attribute.
- LED Numerical: The LED Numerical widget displays the value of a property or attribute in the form of LED numbers
- Percent: The percent widget provides information about the state of a property or attribute in terms of percentages or ratios.

XRT/gear

The essential collection of add-on widgets and utilities for Motif



XRT/gear is a collection of ten widgets and four utilities that let you build improved Motif user interfaces easily and quickly. You can use Outliner/Tree interfaces, build folder and tab dialogs (like in Windows 95™) and add pop-up spot help (like in Microsoft Office®) to your Motif applications. XRT/gear's widgets let you amuse users with progress meters, build toolbars filled with colorful icons or easily align or tile widgets in a form. Other XRT/gear widgets are improvements on the standard toggle, label and pushbutton widgets. And XRT/gear lets you easily output

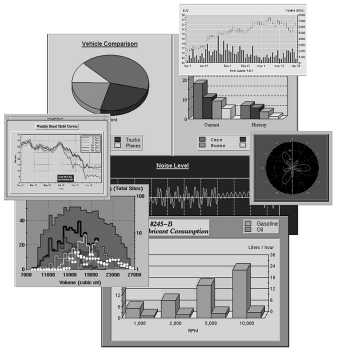
any Motif interface in PostScript. XRT/gear is designed by Motif experts to be the most useful, valuable and fun general purpose collection of Motif add-ons ever.

XRT/gear also includes the Icon Library, a set of 3000 public-domain icons suitable for use with any of the XRT/gear widgets. An icon viewer is included. As well, there is a color editor object, providing users with a smart color editor with a minimum of coding.

XRT/graph

Build powerful 2D charts and graphs into Motif applications

XRT/graph is a complete and powerful widget that can display virtually any type of two-dimensional data, including X-Y plots, bar charts, area graphs, pie charts, bubble charts, polar graphs, radar charts, financial graphs, logarithmic scientific charts and combination graphs.



Choosing from XRT/graph's more than 260 resources, you can quickly and easily control your graph's appearance and behavior.

XRT/graph has resources that allow control of:

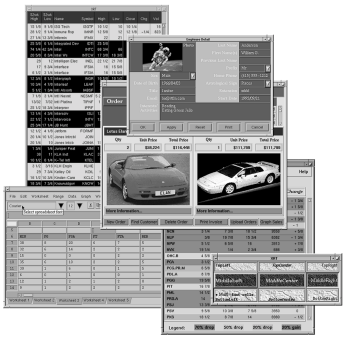
- Graph type (plot, area, bar, stacking-bar, pie, bubble, Hilo, HiloOpenClose, candle, polar, radar, filled-radar or combination).
- Header and footer positioning, border style, text, font and color.
- Data styles: line colors and patterns, fill colors and patterns, axis colors and patterns, line thickness, point style, size and colors.
- Legend positioning, orientation, border style, anchor, titling, font and color.
- Graph positioning, border style, color, width, height and 3D effect.
- Stacking and 100% for area, plot, radar and filled radar types.
- Axis labelling using Point-labels, Set-labels, Value-labels or Time-labels.
- Axis and data minimums and maximums, axis numbering methods, numbering and ticking increments, grid increments, font, origins, axis directions and precisions.
- Placement of axes, annotation and origins. Inversion of axes.
- Exploding/missing pie slices and user-specified pie starting angles.
- Control of user-interaction with the widget using callback resources.
- Markers and Text Areas.
- Chart, header, footer, data area, and text object background images.

XRT/graph also provides several procedures and methods that:

- Allocate and load data structures containing the numbers to be displayed.
- Update elements and data contained in data objects.
- Display new data very quickly in certain circumstances.
- Provide a property editor that enables you or end-users to view and change graph resources at runtime.
- Output a representation of the graph in PostScript format, as well as (using the new PDS Utility Library) output to JPEG, PNG or any other user-defined image type.
- Help you set and get indexed resources.

XRT/table

Multi-purpose widget to display and edit lists, tables and forms



XRT/table allows you to easily display and manipulate tables and forms in your OSF/Motif applications. It is ideal for applications that access stored text or image data such as lists and databases, or for displaying dynamic tabular data on the fly. With over 150 resources, XRT/table is flexible enough for almost any task, but is designed by Motif experts to be simple and easy to use.

XRT/table has resources that allow control of:

- Number of rows and columns, both in the table and visible on the screen.
- Cell contents: cells and labels can contain text values, pixmaps or widgets.
- Row height and column width.
- Cell/label attributes including border, text alignment, font and color.
- Alignment of widgets in cells.
- The use of combo boxes and spin boxes as cell editors.
- User interaction, including selection models.
- Cell editability and traversability.
- Fast preview scrolling, which allows quick, precise cusor movement in a table.
- Compound Strings, which allow cell/label text to use multiple fonts.

XRT/table also provides several procedures and methods which:

- Add, delete and move table rows and columns.
- Output a representation of the table in PostScript format.

- Read table cell values from an ASCII file, as well as from XRT/graph and XRT/3d datasets.
- Perform data validation of cell values.
- Help you set and get cell ranges.
- Write table cell values to an ASCII file, and in SYLK format.

XRT/pageformatter

Create complex layouts — simply



XRT/pageformatter offers a set of methods and procedures for adding paginated, formatted, flowed-text and image output to UNIX applications. XRT/pageformatter offers support for Western European languages using ISO-Latin-1 fonts.

XRT/pageformatter can help you create applications that use complex layouts involving columns, "frames," multiple layout styles on one page, automatically generated headers and footers, graphics, images (GIF, JPEG, XPM, PNG and EPS), tables, different fonts, and more.

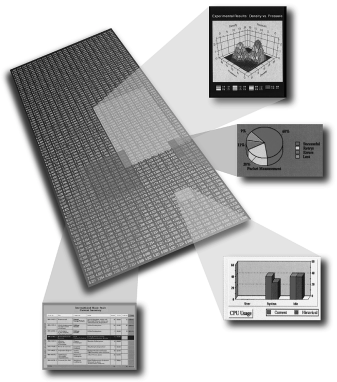
XRT/pageformatter may be used in conjunction with X/Motif or may be part of a non-X application.

XRT/pageformatter is capable of outputting your document to Level 2 PostScript, HP-PCL 5 and Adobe Acrobat (PDF) format. PDF format allows you to generate compact files readable across various platforms that retain their formatting characteristics.

Model View/Control Kit for XRT Widgets

Create dynamic views of one set of data with XRT/graph, XRT/table and XRT/3d

The Model View/Control Kit for XRT Widgets (MVC) is included with XRT PDS, XRT/graph, XRT/table, and XRT/3d. The MVC Kit enables you present multiple views of the same data. Views display as 2D graphs, 3D graphs, or tables using these XRT widgets. Through the MVC Kit, changes made to the data in any view can be reflected in the base data and all other views.



Learning About PDS

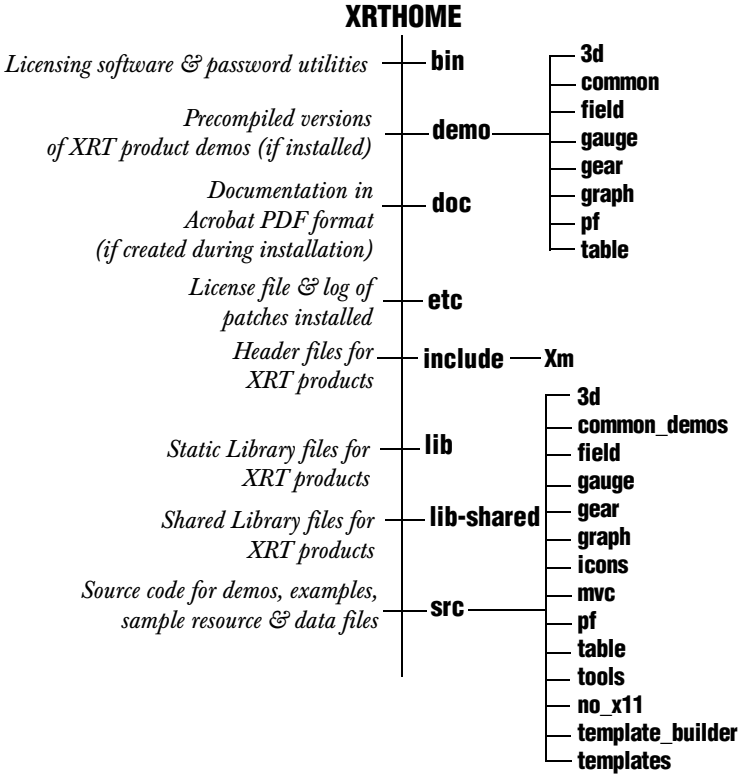
XRTHOME Install Directory ■ *Precompiled Demo Programs*
Demo and Example Source Code ■ *Documentation*

XRTHOME Install Directory

To install and configure XRT PDS, follow the steps in the *Release and Installation Notes* document included with your media. This document also contains important information on compatibility with operating system, X11 and Motif releases.

PDS installs all XRT products in a single directory tree. Once you have set up the *XRTHOME* environment variable as described in the *Release and Installation Notes*, you can easily use any combination of XRT products in your application.

The following diagram illustrates the *XRTHOME* tree and its main subdirectories.

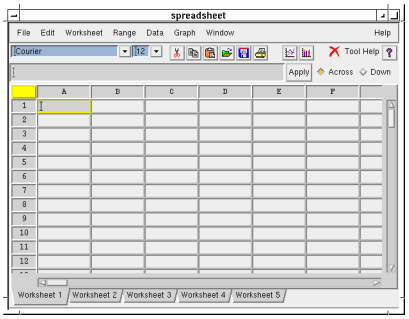


Precompiled Demo Programs

Once PDS is installed, the easiest way to familiarize yourself with its components is by running the precompiled demo programs.

If you chose to install the precompiled demos, they are in *$XRTHOME/demo* (Unix) or *XRTHOME:[DEMO]* (VMS). Each product has a separate directory for its demos.

Demo and Example Source Code



The best way to start with PDS is simply to use it. Copy the source code for a program to a writable location and *make* it. Assuming *XRTHOME* is set up correctly, the *Makefile* will compile, link, and authorize the application with *xrt_auth*. For shared libraries, type *make shared* instead of *make*.

PDS products include both examples and demos. Examples are short programs that illustrate specific features. Demos are more complete applications that illustrate several features working together. Most common programming tasks are covered in the examples and demos.

XRT/3d

Examples (located in *$XRTHOME/src/3d/examples*):

bars.c	A simple bar chart that allows the user to change the color of individual bars by clicking on them.
scatter.c	An example of a scatter plot graph.
simple.c	A simple 3D surface example program.
simple_cpp.cxx	Implements *simple.c* in C++.
simple_uil.c	A version of *simple.c* that uses UIL to set the resources.
texts.c	Shows how to create text objects.

Demos (located in *$XRTHOME/src/3d/demos*):

feedback3d	Demonstrates use of the mapping and picking feedback functions.
math3d	Graphs built-in mathematical functions.
play3d	Provides direct access to all XRT/3d and text object resources. Loads and saves graph descriptions in resource files.
shader	Enhances the visual effect of surfaces by shading them. Shades each facet of a surface according to the angle and intensity of a light source.
spline	Shows how to reduce the size of large datasets using cubic and linear spline interpolation.
view_dir	Shows how to display data as a 3D bar histogram. Gives a visual display of files in a selected directory.

XRT/field

Examples (located in *$XRTHOME/src/field/examples*):

calendar.c	Displays a simple XrtCalendar widget.
combo.c	Displays a simple XrtComboBox widget.
counter.c	Displays an XrtSpinBox that counts from 0 to 10.
datespin.c	Creates an XrtSpinBox with four counters as children, containing the day of the week, the day of the month, the month and the year. Can be used as a perpetual calendar.
datespin2.c	Creates a more advanced version of the above example, particularly showing the spinning of subfields.
fields.c	Displays an example of each of the five XrtField subclasses.
password.c	Uses a field to obtain a user password, which is then written to *stdout*.
phone.c	Displays a phone number field. The area-code parentheses and dash are automatically supplied by means of a mask.
simple.c	A simple example program discussed in Chapter 1 of the manual.
spin.c	Displays a simple XrtSpinBox widget.

Demos (located in *$XRTHOME/src/field/demos*):

form	Shows how you can use XRT/field widgets to create an employee data entry form.
locale	Contains the *printlocale* program, which displays local information for a selected locale or the current locale.
play_field	Allows users to interactively modify many of the XRT/field widgets.
sampler	Shows all the features and capabilities of XRT/field. Separate windows (accessible via radio buttons) display collections of fields, spin boxes, combo boxes, counter boxes and currencies.
table_entry	This demo shows how you can use XRT/field widgets with XRT/table. A simple table uses different field subclasses for editing different columns. For example, an integer field edits the Phone Number column. As a multi-product demo, this is located in *$XRTHOME/src/common_demos*.

XRT/gauge

Examples (located in *$XRTHOME/src/gauge/examples*):

analyzer.c	Displays a spectrum analyzer using a Linear Gauge widget or an LEDIcon widget.
cdial.c	Displays a Circular Dial widget.
clock.c	Displays the time in analog and digital modes.
color.c	Choose the RGB values for a color using indicators on a linear gauge.
combo_lock.c	A game that asks you to use circular dials to open the combination lock before time runs out.
expenses.c	Use the Percent widget to a pie chart of household expenses.
flashing.c	Use LEDNumerical to show a VCR's "flashing 12."
image.c	Show on/off images on a linear dial.
ldial.c	A linear dial example.
led_icon.c	Set various resources on an LEDIcon widget and enable the mouse to turn icons on and off.
led_num.c	Set various resources on an LEDNumerical widget.
led_num_text.c	Set the number of digits and text in an LEDNumerical widget.

lgauge.c	Set various resources on a Linear Gauge widget.
needle.c	Set various resources on a Needle object in a Circular Gauge.
oven.c	Simulate oven controls with Circular Dials.
percent.c	Set various resources on a Percent widget.
progress.c	Two Progress widgets, one with a circular scale and one with a linear scale.
scoreboard.c	Use LEDNumerical widgets that resembles a baseball scoreboard.
switch.c	Demonstrates the different switch types for a Circular Dial
temperature.c	A Linear Gauge whose Range object is shaped like a thermometer.
ticks.c	Set various resources on Tick objects.

Demos (located in *$XRTHOME/src/gauge/demos*):

car.c	Displays a car's instrument cluster.
flight	An application that mimics an airplane's instrument panel.
nim.c	Play the game of NIM using LEDIcon widgets.
sampler	A collection of the XRT/gauge examples, grouped by widget.

XRT/gear

Examples (located in *$XRTHOME/src/gear/examples*):

aligner.c	Displays an Aligner widget.
combo.c	Displays a Combo Box widget.
complex_cpp.cxx	Creates XRT/gear widgets and manipulates their resources; written in C++.
label.c	Displays an Enhanced Label widget.
multicol.c	Displays an Outliner widget containing multiple columns with labels.
outliner.c	Creates an Outliner widget displaying the data in a specified file.
paned.c	Shows the features of the paned window widget and color editor object.

progress.c	Shows the features of the Progress widget.
pushb.c	Displays an Enhanced Pushbutton widget.
racecar.c	Displays a Progress widget, illustrating the use of icons.
simple_cpp.cxx	Creates XRT/gear widgets; written in C++.
tabs.c	Displays Tab Manager and Tab Button widgets.
toggle.c	Displays an Enhanced Toggle widget.
toolbar.c	Displays a Toolbar widget.

Demos (located in *$XRTHOME/src/gear/demos*):

fileviewer	Uses the Outliner widget to display and modify your system file hierarchy.
sampler	Shows how many of the XRT/gear widgets work.

XRT/graph

Examples (located in *$XRTHOME/src/graph/examples*):

bar2tran.c	Displays a simple transposed bar chart.
bar2tram_cpp.cxx	Implements *bar2tran.c* in C++.
bubble.c	An example of a bubble chart.
common.c	An example of an application that uses the cross-platform XRT/graph and Olectra Chart API. Runs on UNIX and on Microsoft Windows.
panel.c	Defines a form containing several Motif toggle widgets. A graph is created below the toggles.
pie.c	Displays a pie chart with exploding slices.
plot1.c	A simple example program discussed in Chapter 1 of the manual.
radar.c	Displays a simple radar chart.
scrollgraph.c	Displays a graph in a scrolled window widget.
simple_uil.c	A simple graph program that uses UIL to set resources.
slider.c	Shows how to use graph axes and datastyles to simulate a slider user interface.
stock.c	Shows HiLo and Candle charts.
style.c	Uses point styles to select single bars and points within a graph.

time.c	A simple example of using time-axis labels.

Demos (located in *$XRTHOME/src/graph/demos*):

builder	Uses the Property Editor to provide a simple environment for interactively building the visual look of a graph or viewing the sample *.XRT* graph description files.
drill_down	Shows one way to manage and present a large amount of data at different levels of granularity.
feedback	Demonstrates some techniques for mapping and picking, and for displaying visual feedback of those events. Also illustrates one way to use markers.
flow	Demonstrates a type of pulse chart, and is a good example of using color to differentiate ranges of data values.
hilow	Plots the open, high, low and close prices for two stocks. Illustrates one way to manipulate data objects (on the fly) as a user requests various options.
polar	Shows different ways to display polar data using the polar resources. Uses a number of mathematical functions to generate the data.
scroll_time	Demonstrates usage of the time-axis features and shows the use of *Xlib* routines to select a subset of data to display.
stripper	Demonstrates how to use the Fast Update procedures to build a real-time strip chart. You can adjust the rate of incoming data and the scroll-back percentage.
text_area	Demonstrates how to create and attach text areas to plots, bar graphs, stacking bar graphs and pie charts.
vmgraph	Displays your system's virtual memory statistics in three graphs that are updated every second. Demonstrates one way to read data from a pipe. Requires the *vmstat* program, which is not available on OpenVMS or some Unix systems.

XRT/table

Examples (located in *$XRTHOME/src/table/examples*):

entry.c	Shows the use of the TraverseCell and EnterCell callbacks to control traversal and text entry into a simple form. Also shows the use of buttons and option menus within cells.
list.c	Shows how to mimic an XmScrolledList with a table by setting `XmNxrtTblMode`. Also shows sorting a table and searching a table for a string.
multiply.c	Shows how to use `XmNxrtTblCellValueCallback` to specify the value of each cell on demand, an efficient way to handle very large tables.
simple.c	Displays a very basic table that you can use to learn some XRT/table basics.
simple_cpp.cxx	Implements *simple.c* in C++.
styles_c.c	Shows how to switch between three different table looks with the click of a button.
styles_res.c	A version of *styles_c.c* that creates all resources from a resource file (*styles.res*).
styles_uil.c	A version of *styles_c.c* that uses UIL to set all resources.

Demos (located in *$XRTHOME/src/table/demos*):

bombhunt	Uses XRT/table in a simple game. The object is to find all of the bombs hidden under some of the squares.
form	A data-entry form that uses two tables. Shows how to use spanned cells, widgets in cells and pixmaps in cells.
play	Provides direct access to all XRT/table's resources. A user can change any resource value and immediately see how the changes affect the table. Saves table descriptions in resource files.
stocks	Illustrates runtime setting of colors.
widgets	Illustrates how to manage widgets in cells.

XRT/pageformatter

Examples (located in *$XRTHOME/src/pf/examples*):

email *xemail*	A simple example that renders text to a single frame, changes font style, and aligns text with tabs.
simple_filter *xpreview*	An example of how *KlgPfFilterSimple()* can be used to quickly flow text.
style_pf *xstyle_pf*	A self-referential example of how to change various Style attributes.
traviata *xtraviata*	An example demonstrating XRT/pageformatter's use of multiple frames and printing non-English characters.
table_border *xtable_border*	An example showing different table border styles.
table_color *xtable_color*	An example of how to set colors in tables.
table_header *xtable_header*	An example showing how to add a table header.
table_image *xtable_image*	An example of how to add images to table cells.
table_margin *xtable_margin*	An example of how to add margins to a table.
table_simple *xtable_simple*	A simple example demonstrating how to use tables in XRT/pageformatter.
table_span *xtable_span*	An example of how to span table cells.
table_style *xtable_style*	An example showing how to set different table styles.

Demos (located in *$XRTHOME/src/pf/demos*)

financial *xfinancial*	Demonstrates how XRT/pageformatter functionality may be applied to financial data.
realestate *xrealestate*	Demonstrates using XRT/pageformatter with a list of data records.
reports *xreports*	Demonstrates a variety of financial reports.
webprint	Demonstrates a web-based printing engine.

parser *xparser*	Parser has two versions: xparser and parser. Xparser allows you to generate an X document in the previewer (xparser) or a PostScript file (.ps) from a document marked up with formatting tags. Parser will only generate a PostScript, Acrobat or HP PCL file.

Multi-Product Demos

(located in *$XRTHOME/src/common_demos*) **:**		XRT/3d	XRT/field	XRT/gear	XRT/graph	XRT/table
graph_editor	A table displays data that is graphed. A user can edit the data in the table and the graph updates to reflect the change.				✔	✔
mvc	Demonstrates MVC Kit for XRT widgets.	✔			✔	✔
profile	Displays a 2D profile graph of a 3D surface.	✔			✔	
spreadsheet	Mimics a spreadsheet application, allowing a user to load or enter data into cells. Demonstrates most of XRT/table's features.		✔	✔	✔	✔
surface_editor	A table displays Z-values displayed in the 3D graph. A user can edit the Z-values and the graph updates to reflect the change.	✔				✔
table_entry	A simple table uses different field subclasses for validating user editing in different columns.		✔			✔

For other examples and demos, point your web browser to `http://www.sitraka.com` or FTP client to `ftp.sitraka.com`.

Documentation

PDS includes a complete programming and reference manual for each XRT product, available as both a printed manual and online documentation.

Printed Documentation

Each manual offers several ways to help you quickly learn how to use each product:

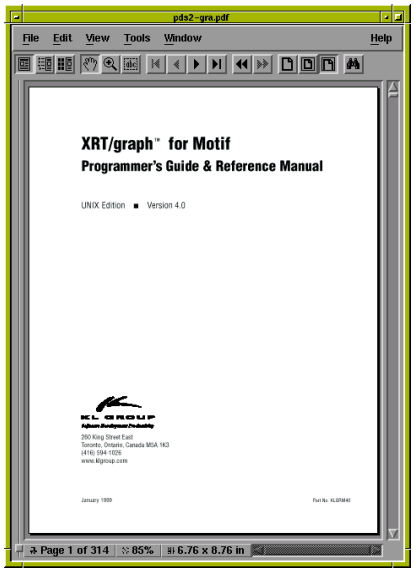
- Product overview, new features, and changes between releases are available in each manual's Preface.
- Step-by-step tutorial outlining the basic steps of working with the product is available in the "Getting Started" chapter.
- Important basic information on terminology, widget hierarchy, programming certain types of resources, and more is available in the "Basics" chapter.

Note: The exception to the latter two points above is the XRT/gear manual, which is compartmentalized according to widget and utility. The type of information mentioned in the latter two points above is available in each individual chapter of the XRT/gear manual.

Online Documentation

You can use the Acrobat PDF versions of the documentation directly from the CD, or copy them to a local disk for faster access. Using the online versions of the documentation offer a number of benefits:

- Click text in the table of contents, index or cross-references to easily jump to related material.
- Find any specific string in a document using full-text searching.
- Copy and paste code examples directly into your own programs.
- Print only the needed parts of the manual.



Technical Support & Feedback

Technical Support ■ *Product Feedback and Announcements*

Technical Support

Sixty days of XRT/care coverage are included from the date you purchased your XRT product(s). Sitraka provides a recommended update and technical support package called XRT/care. You may purchase annual XRT/care agreements from Sitraka or your XRT Reseller. XRT/care ensures you will receive all applicable XRT bug-fix releases and upgrades. It also entitles you to receive technical support for installation problems, programming problems or other XRT-related issues.

If you purchased your XRT product(s) from Sitraka, contact Sitraka for technical support; if you purchased your XRT product(s) from an XRT reseller, please contact the reseller for technical support. The technical support contact information is on your password letter.

Many of the initial problems you may encounter are basic installation or setup problems. Consult the "Troubleshooting" section in the *Release and Installation Notes* accompanying this release for solutions to common installation and setup problems.

Any request for support **must** include your XRT license serial number. Collecting the following additional information will help us serve you better:

- Identification – your name, company name, case number (if in regards to a previous case)
- Product – XRT version and architecture
- Platform – the version of the operating system, X, and Motif you are using
- Problem – reproducable description of the problem you are having

Online Support Resources

Sitraka's web site provides additional avenues for technical support, for example:

XRT Technical Support: (general info and links)	`http://www.sitraka.com/software/support/xrt/tsxrtsupport.html`
XRT Knowledge Base:	`http://services.sitraka.com/cgi-bin/xrt_search.cgi`
XRT Product FAQs:	`http://www.sitraka.com/software/support/xrt/tsxrtfaq.html`

Product Feedback and Announcements

We are interested in hearing about how you use your XRT product(s), any problems you encounter, or any additional features you would find helpful. The majority of enhancements to XRT products are the result of customer requests.

Please send your comments to:

Sitraka Inc.
260 King Street East
Toronto, Ontario, M5A 4L5 Canada

Phone: (416) 594-1026
Fax: (416) 594-1919
Email: dev_xrt@sitraka.com
Internet: news://news.sitraka.com/sitraka.forum.xrt

While we appreciate your feedback, we cannot guarantee a response. Please do not use the dev_xrt email address for technical support questions.

Occasionally, we send XRT-related product announcments to our customers using an email list. To add yourself to this mailing list, send email with the word "subscribe" in the body of the message to xrt_announce-request@sitraka.com. Visit the Sitraka web site at http://www.sitraka.com for more details.