



# Panther

## Glossary/Master Index

***Prolifics.***

Release 5.51

Document 0404

March 2017

## Copyright

This software manual is documentation for Panther® 5.51. It is as accurate as possible at this time; however, both this manual and Panther itself are subject to revision.

Prolifics, Panther and JAM are registered trademarks of Prolifics, Inc.

Adobe, Acrobat, Adobe Reader and PostScript are registered trademarks of Adobe Systems Incorporated.

CORBA is a trademark of the Object Management Group.

FLEX $lm$  is a registered trademark of Flexera Software LLC.

HP and HP-UX are registered trademarks of Hewlett-Packard Company.

IBM, AIX, DB2, VisualAge, Informix and C-ISAM are registered trademarks and WebSphere is a trademark of International Business Machines Corporation.

INGRES is a registered trademark of Actian Corporation.

Java and all Java-based marks are trademarks or registered trademarks of Oracle Corporation.

Linux is a registered trademark of Linus Torvalds.

Microsoft, MS-DOS, ActiveX, Visual C++ and Windows are registered trademarks and Authenticode, Microsoft Transaction Server, Microsoft Internet Explorer, Microsoft Internet Information Server, Microsoft Management Console, and Microsoft Open Database Connectivity are trademarks of Microsoft Corporation in the United States and/or other countries.

Motif, UNIX and X Window System are a registered trademarks of The Open Group in the United States and other countries.

Mozilla and Firefox are registered trademarks of the Mozilla Foundation.

Netscape is a registered trademark of AOL Inc.

Oracle, SQL\*Net, Oracle Tuxedo and Solaris are registered trademarks and PL/SQL and Pro\*C are trademarks of Oracle Corporation.

Red Hat and all Red Hat-based trademarks and logos are trademarks or registered trademarks of Red Hat, Inc. in the United States and other countries.

Sybase is a registered trademark and Client-Library, DB-Library and SQL Server are trademarks of Sybase, Inc.

VeriSign is a trademark of VeriSign, Inc.

Other product names mentioned in this manual may be trademarks or registered trademarks of their respective owners, and are used for identification purposes only.

Send suggestions and comments regarding this document to:

Technical Publications Manager

Prolifics, Inc.

24025 Park Sorrento, Suite 405

Calabasas, CA 91302

<http://prolifics.com>

[support@prolifics.com](mailto:support@prolifics.com)

(800) 458-3313

© 1996-2017 Prolifics, Inc.

All rights reserved.

# Contents:

<b>Glossary</b>	<b>G-1</b>
<b>Master Index</b>	<b>I-1</b>



# Glossary

## **active screen**

The [screen](#) at the top of the [window stack](#). This is the screen that the user can interact with. If there is a [cursor](#), it appears on this screen.

## **ActiveX control**

Software components using Microsoft's [COM](#) technologies to interact with other COM objects and services.

## **address**

An Internet machine name or location, for example, `prolifics.com`.

## **agent**

In three-tier architecture, a [client](#) or an [application server](#).

## **aggregate function**

One of a group of [database](#) functions that calculates summary information on a group of [rows](#).

## **alias**

A mechanism whereby a Panther variable is explicitly named to receive information from a [database column](#). You should use an alias when the Panther variable and the database column have different names.

## **anchor**

The [HTML](#) tag that denotes a [hyperlink](#) in an HTML document.

## **applet**

A Java program that is embedded within an [HTML](#) document. An applet cannot run as a standalone Java application.

**application mode**

The start-up mode when using the Panther [runtime](#) executable. In this mode, you can test a complete application, or portions of an application.

**application server**

The [server](#) component of a three-tier system. In addition to application logic, it contains the services that access the [resource manager](#), such as a database. The services are called by clients or other services, which may or may not reside on the same physical machine.

**array**

A [field](#) that has one or more [occurrences](#). The number of onscreen occurrences is specified in the Array Size property under Geometry. Each occurrence can contain data. The onscreen portion of an array contains one or more [elements](#), where each element is identified by a [field number](#) that is unique on the [screen](#). An array can contain more occurrences than it has onscreen elements; then it is called a [scrolling array](#) and the number of offscreen occurrences is specified in the # of Occurrences property.

**attribute**

In [HTML](#), an attribute is the named component of an object or element with a specific value, requirement, or default status. Attributes give an element its unique characteristics.

**authoring environment**

The tools used to create and test application [screens](#) and [links](#); the authoring environment includes [application mode](#), the screen editor, [menu bar editor](#), [styles editor](#), and [visual object repositories](#).

**automatic function**

A [hook function](#) that executes on all occurrences of an event type—for example, screen exit on every [screen](#) in an application. These functions are never explicitly called in the application code or screens; instead, Panther calls them automatically at the appropriate stage of program execution. Contrast with [demand function](#).

**block mode**

Refers to a terminal that collects user input and transmits a set of new or changed data to the host computer in a block, as opposed to a terminal that transmits each keystroke separately.

**browser**

A program used to access resources located on the Internet or on an intranet. Different platforms and terminals can access different browser programs. The program can be text-based or graphical. Microsoft Internet Explorer is an example of a graphical browser program.

**bundle**

A buffer that stores [screen](#) data sent by JPL's [send](#) command or by [sm\\_append\\_bundle\\_data](#). Panther can maintain up to ten bundles. Bundle data can be read by the [receive](#) command or by [sm\\_get\\_bundle\\_data](#).

**CGI**

Common Gateway Interface, which determines how an [HTTP](#) server passes information to other gateway programs on the server.

**check box**

A [selection widget](#) used to enable or disable one or more features or options, usually occurring in a [group](#) of check boxes. Contrast with [radio button](#).

**child object**

An object, either a [widget](#) or [screen](#), that has been copied from a [repository](#) to an application screen. It has an [inheritance](#) relationship with the [parent object](#) in the repository, so that if any changes are made to the parent, they also affect any children of that parent.

**child table view**

One of two designations for a linked [table view](#), the other being a [parent table view](#). Table views must be linked to be included in database command processing; the designation of parent or child determines the order in which table views are processed by the transaction manager.

**class**

1) A [widget](#) property that is applied when you run the [transaction manager](#). The class setting specifies a style for the widget in each [transaction mode](#). 2) The prototype for an object in an object-oriented language; analogous to a derived type in a procedural language. A class may also be considered to be a set of objects which share a common structure and behavior. The structure of a class is determined by the class variables which represent the state of an object of that class and the behavior is given by a set of methods associated with the class.

**class diagram**

A class diagram displays design-time information. Class diagrams can be used to define components of an application, information about the components, and what their relationship is to other components.

**client**

A program that extracts information from a server. In two-tier client/server applications, the program or machine containing the user interface. In three-tier, the client connects to an [application server](#) via [middleware](#) and makes requests for services from an application server or [resource manager](#). In a two-tier environment, the client accesses data over a network from a database.

**CLSID**

Class Identifier. A globally unique identifier assigned to a [COM](#) component when it is created.

**column**

The various subsections of a database [table](#), each containing a piece of information. `actor_id`, `first_name` and `last_name` are the columns in the `actors` table. In some database systems, a column is called a field.

**COM**

Component Object Model. Microsoft's specification for the building of modular, object-oriented software components. Each COM component has a unique, global identifier called a [CLSID](#). [ActiveX controls](#) are a type of COM component.

**commit**

The act of saving the database changes back to the server when a *transaction* is complete. Contrast with [rollback](#).

**component**

A unit of work that encapsulates business logic. It publishes an interface available to all foreign applications or components enabling easy integration.

**configuration variable**

Variables defined either in the [smvars](#) file or in the environment, which serve as pointers to required configuration files (key translation, video, and message), to alternate setup files, and to application-specific files and information. See also [set-up variable](#).



**control string**

Control strings can be thought of as the connectors that hold a Panther application together. A Control String property setting defines the action to take place when a [push button](#), function key, or menu selection event occurs. Possible actions include: displaying a [screen](#) or [window](#), calling a developer-written function, or executing a system command.

**conversion server**

A type of [application server](#) used in [JetNet](#) applications; advertises built-in services for use by [transaction manager](#)-enabled applications that have been converted from a two-tier application to a three-tier application with Panther's two- to three-tier conversion utility.

**cookie**

A piece of information set by an [HTML](#) document to be stored on the [browser](#). If the browser subsequently requests information from the same [HTTP](#) server that set the cookie, the cookie value is returned in the HTTP request.

**correlation name**

A temporary alternate name for a database [table](#) which is specified in the SQL statement when implementing a join or a self-join.

**cursor**

1) The positional indicator on the monitor. 2) An SQL object associated with a specific query or operation.

**database**

A collection of information, organized into database [tables](#).

**database engine**

A [DBMS](#) product which is identified by the vendor name and version number. For example, SYBASE 16, ORACLE 11 and ORACLE 12 are three distinct database engines.

**DBMS**

Database Management System. The components used to create and maintain a [database](#).

## **DCOM**

Distributed COM, or Distributed Component Object Model. The extension of [COM](#) to support communication between components distributed across a network.

## **demand function**

A [hook function](#) that is explicitly called from a Panther object, such as a function called from a [control string](#) on a [widget](#) or [screen](#), a screen entry function on a specific screen, or a function called from a JPL module. Contrast with an [automatic function](#).

## **dispatcher**

A Panther web application broker process which acts as the messenger between a requester and a jserver. When a requester starts, it notifies the dispatcher that it intends to submit a request. The dispatcher waits for a jserver to become idle and then connects it to the incoming requester.

## **display text**

A [widget](#) that is not altered by the user or program at [runtime](#). Static labels and graphical widgets (boxes and lines) are considered to be display text. These widgets do not get a [field number](#).

## **distributed transaction**

A transaction that spans multiple [resource manager](#) instances. It starts with an XA-compliant [xa\\_begin](#), and ends with an XA-compliant [xa\\_commit](#), [xa\\_rollback](#), or [xa\\_end](#).

## **document root**

The base of an [HTTP](#) server's document tree.

## **domain**

A name given to a computer that is mapped to its numeric IP address. There can be several domain levels, each one separated from the next by a period. The highest domain level is to the right. Examples of the top-level domains are [.com](#) for businesses, [.gov](#) for government agencies, and [.edu](#) for schools and universities.

## **DTD**

Document Type Definition. The specification that defines the structure of the markup elements in an [HTML](#) document and determines how to place elements inside the document.

**edit mode**

The start-up mode when using the Panther development executable. You can access the [menu bar editor](#) and [styles editor](#) from this mode as well as connect to [database](#)s. You can also toggle in and out of [test mode](#) in order to test portions of an application.

**element**

- 1) An onscreen [field](#) in an [array](#). Contrast with an [occurrence](#).
- 2) The basic unit of an [HTML](#) document. Each element has a unique tag that can be used to identify the structural contents of the document. `TITLE`, `BODY`, and `FORM` are examples of HTML elements.

**embedded character**

Refers to any character in a data entry [field](#) that is automatically inserted into the field and cannot be modified by the user. They are created through the Keystroke Filter property when it is set to [Edit Mask](#) or by characters in the field that do not match the Kerstrone Filter. Depending upon the filter used, the library routine [sm\\_getfield](#) may or may not see the embedded characters as data.

**Enterprise JavaBeans (EJB)**

Server-side components written in Java that perform the business logic of an application in *n-tier* distributed applications. They must be deployed on an EJB server and within an EJB container, such as those provided by IBM [WebSphere](#).

**engine**

See [database engine](#).

**event**

An action that causes a change in the processing flow of an application. Some events are associated with a user action, such as a mouse click or menu selection. Other events are associated with an action internal to the application, such as a screen exit. Events are classified by how and where they are triggered, such as the completion of a service request or an error in program execution.

**external menu**

A [submenu](#) whose name is not defined in the menu file of the menu invoking it. External menus are useful when you want to invoke the same submenu in different menus, such as a generic Edit menu.

**field**

A [screen](#) object, or [widget](#), that accepts or displays data, for example where a user enters data or the program displays variable output. Examples of fields include option menus, dynamic labels, and data entry widgets. Contrast with [display text](#).

**field number**

A unique number assigned by Panther to each [field](#) in a [screen](#). This number is based on the field's position in the screen and therefore may change if field positions or number of [occurrences](#) are changed. Although the field number can be used to refer to a field, it is recommended that you use the field name.

**file access server**

A type of server used by [JetNet](#) and [Oracle Tuxedo](#) applications to provide remote library and [repository](#) access in the development environment and to exchange files from a remote server.

**firewall**

A system that separates a local internal network from an outside network such as the Internet. When configured, a firewall prevents unauthorized [TCP/IP](#) packets from passing into the local network from the outside, and vice versa.

**foreign key**

A [column](#) in a database [table](#) which is defined as a *primary* key in another table within the same [database](#).

**form**

- 1) One of two ways that a [screen](#) is displayed in an application, the other being a [window](#). The main difference between a form and a window is that you can have multiple windows open at one time, but only one form. An example of a form is the startup screen displayed when a user begins a Panther application.
- 2) In [HTML](#), the `FORM` element is used to create fill-in forms that collect data from user input. Attributes that are associated with `FORM` are `Action` and `Method`.

**FTP**

File Transfer Protocol. An Internet client/server protocol used for transferring files between networked computers.

**function key**

A programmable key with a function other than data entry. Its meaning can be defined by either a program or a user. Panther function keys are frequently associated with [control strings](#) that specify such actions as [form](#) and [window](#) display. Panther function keys are defined as [logical keys](#); the mapping of functions to physical keys is done by the user, allowing the application to be terminal independent.

**GET**

A [CGI](#) method that is used to retrieve a document from an [HTTP](#) server or to send an input form from the user back to the HTTP server. With `GET`, data in the input form is appended to the URL.

**GIF**

Graphics Interchange Format. A compressed graphics file format widely used in [HTML](#) documents to display pictures and animation.

**group**

One or more [selection widgets](#) ([radio button](#), [check box](#), [list box](#), and [toggle button](#)) that are functionally connected—therefore, the widgets function as a group. The group has properties that define its entry/exit/validation behavior and tabbing order. Also, the set of widgets that make up a [table view](#).

**handles**

Places on a [widget](#) or [screen](#) where the object can be “grabbed” for repositioning or resizing.

**help screen**

An informational screen that can be attached to a [screen](#) or [widget](#) by specifying its name in the Help Screen property. The specified help screen will display at [runtime](#) when the Help key is pressed or automatically when the screen or widget is entered. Panther also supports an External Help property for displaying help using a third-party help engine.

**home page**

The first page that is displayed when you access a website. It usually contains [hyperlinks](#) to other documents within the site or to other websites.

**hook function**

A function to be invoked when certain events occur, such as screen entry or function key selection. Hook functions can be divided into two general types: [demand functions](#) that are called explicitly from a Panther component such as a screen, and [automatic functions](#) that are called automatically on all occurrences of an event type.

**HTML**

HyperText Markup Language. The formatting language used by documents on the Internet, which specifies via markup tags how to present document information in the [browser](#).

**HTTP**

HyperText Transfer Protocol. The [TCP/IP](#) based communications protocol that defines how clients and servers communicate over the web.

**HTTPS**

An implementation of the [HTTP](#) protocol that provides for more secure web communications by including encryption methods.

**hyperlink**

A reference to another Internet resource. By clicking on a hyperlink, the resource associated with the hyperlink is downloaded to the [browser](#).

**inheritance**

The propagation of properties from an object in the [visual object repository](#) to an object in a screen. The inheritance relationship can be established either by copying the [parent object](#) from the repository to your screen or by entering the repository object in the application object's Inherit From property. The application object is referred to as the [child object](#).

**Internet**

A global collection of interconnected networks and computers.

**intranet**

An internal, organization-wide networked computing environment.

**IP address**

The numerical Internet protocol address of a computer on the Internet. Each computer on the Internet has a unique IP address.

**ISAPI**

Internet Information Server API. This API for Microsoft's [HTTP](#) servers optimizes the web application interface for faster access than a corresponding [CGI](#) program.

**Java**

An object-oriented programming language similar to C++.

**JavaScript**

An interpreted, scripting language that lets you embed simple programs in web pages.

**JDB**

Single-user SQL database included with Panther. JDB can be used as a prototyping tool to test and refine multi-user database applications when an external database is not available.

**JetNet**

Panther's [middleware](#) component.

**JIF**

In [JetNet](#) and [Oracle Tuxedo](#) applications, an interface file containing [services](#) information used in client/server processing. In Oracle Tuxedo, it also provides queue information. The service information in the JIF is used by [clients](#) when requesting services, and by servers when responding to these requests.

**join**

An SQL method of combining database [tables](#) in order to obtain the desired information. In a join, multiple tables are connected by specifying the relationship between a [column](#) in one table and a column in another table.

**key translation file**

A configuration file that contains the mapping between Panther [logical keys](#) and the physical keys on a terminal. You can create or edit a key translation file with a text editor. You can use the [showkey](#) utility to aid in determining the sequences that the keys on your terminal generate, for inclusion in the file.

**LDB**

See [local data block \(LDB\)](#).

**LDB entry**

A [field](#) in an LDB ([local data block](#)) screen.

**link**

A [widget](#) that defines the relationship between two [table views](#) by describing which [columns](#) or widgets connect the table views, the type of link, [server](#) or [sequential](#), and which table view is the parent and child. Links are needed by the [transaction manager](#) to perform its processing: if a screen contains more than one table view, and they are not linked, they will not be included in any command processing.

**list box**

A [selection widget](#) that contains a scrolling list of choices. List boxes are one of two types: action or selection, depending on whether the user can make one or multiple choices in the box. List boxes can be populated either with data from an external source, such as a [database](#), or with data supplied at design time via the Properties window.

**local data block (LDB)**

A Panther [screen](#) that is used to initialize and save values on other screens, allowing applications to transfer data between screens automatically. When a screen serves as an LDB, Panther uses its [fields](#), or [LDB entries](#), to transfer data to and from corresponding fields on the current screen.

**logical key**

A device-independent mnemonic for a predefined Panther function. These logical functions have names such as `TRANSMIT` and `EXIT`. Logical keys are mapped to physical keys via the [key translation file](#).

**lookup screen**

A nondisplaying [screen](#) used to validate entries made to data entry [widgets](#) at [runtime](#).

**message file**

A configuration file that maps message text to message identifiers. Panther messages are stored in the message file to enable customization (e.g., for international use). User messages may be included as well. The message file also contains date, time, and numeric format specifications that can be customized.



**middleware**

In three-tier architecture, the software that manages communication between clients and servers. Panther's middleware is referred to as [JetNet](#). Other middleware products supported in Panther are [Oracle Tuxedo](#), [MTS](#) and [WebSphere Application Server](#).

**MIME**

Multipurpose Internet Mail Extensions. Extensions to the Internet mail protocol that allow inclusion of sound, audio, video, graphics, and other formats besides text files.

**modal window**

See [stacked window](#).

**MTS**

Microsoft Transaction Server. A part of Windows server providing transaction support for [COM](#) components over a distributed network.

**NCSA**

National Center for Super-computing Applications. Responsible for developing the NCSA [HTTP](#)'d server program.

**NSAPI**

Netscape Server API. An API for the Oracle iPlanet Web Server (formerly known as the Sun Java System Web Server and as the Netscape Enterprise Server).

**occurrence**

An entry in an [array](#). If the number of occurrences is larger than the number of on-screen [elements](#), then the array is a [scrolling array](#).

**parent object**

A [repository](#) object, either a [widget](#) or a [screen](#), having an [inheritance](#) relationship with a [child object](#) in an application screen. The relationship is created either by copying the object from the repository to your application screen or by identifying the repository object in the Inherit From property window. When any changes are made to a parent object, the changes propagate to any children of that object.

**parent table view**

One of two designations for a linked [table view](#), the other being a [child table view](#). Table views must be linked to be included in database command processing; the designation of parent or *child* determines the order in which table views are processed by the [transaction manager](#).

**path name**

The location of a file in the directory tree structure. You can specify either an absolute path name or a relative path name. An absolute path name specifies the name of each parent directory, starting with the root identifier. Under Windows, an absolute path can also specify the drive name. A relative path name identifies the file's location relative to an arbitrary directory in the tree, typically the current working directory.

**popup menu**

A menu that can be accessed by pressing the right (menu) mouse button. The menu that is displayed is context-sensitive—its content depends on the location of the mouse pointer and the menu specification. You can specify the menu in the Popup Menu property under Help.

**port**

The [TCP/IP](#) numeric identifier that a program or service seeks so it can communicate with a computer in a networked environment. Programs are assigned different port numbers so the computer knows what to do when it accesses that port number.

**POST**

A [CGI](#) method of sending an input form from the user back to the [HTTP](#) server. With `POST`, data in the input form is sent to the CGI program as a message body, not as a part of the URL.

**primary key**

The information in a [database column](#) or columns that constitutes a unique entry for each [row](#) in the database [table](#).

**property**

A display or behavioral attribute assigned to one or more application *objects*. Properties can be [inherited](#) from a [repository](#), set manually using the Properties window in the screen editor, or set programmatically using the properties API. Examples of properties are an object's name, widget type, and location on a screen.

**protocol**

A standard for computer-to-computer communications. [TCP/IP](#), [HTTP](#), and [FTP](#) are examples of protocols.

**prototyped function**

A [hook function](#) that gets only the number and type of arguments that you specify. Prototyped functions are [demand functions](#)—that is, they must be invoked by name from a Panther component, such as a [widget](#) or [screen](#). Prototyped functions can be Panther library functions or developer-written.

**proxy**

A server that acts as a guaranteed route through a firewall. It is used to isolate all traffic from the internal network and the external network; all traffic is funnelled through this route. By implementing a proxy, a machine that is on the internal network can conduct transactions with a machine on the external network, and vice versa, by using the proxy as an intermediary.

**push button**

Describes a [widget](#) used to carry out a command or action when selected. A push button is known as a command button in MS Windows parlance.

**qbe**

Query by example. In this type of database query, the `WHERE` clause includes specific values so that a certain subset of information can be returned.

**query string**

The parameters passed to an [HTTP](#) server as part of a URL. A query string is used with the `GET` method and, in a URL, follows the resource location and name.

**radio button**

A [selection widget](#) that, when *grouped* with other radio buttons, allows the user to select a single option from a set of choices. A radio button is known as an option button in MS Windows. Contrast with [check box](#).

**report wizard**

Graphical development tool for designing [database](#) application reports that use the [transaction manager](#). The report wizard prompts you for basic design information and uses that information to build a report that can be used either as is or as a basis for further development.

**repository**

See [visual object repository](#).

**requester**

A Panther web application broker process that accepts a [CGI](#) request from the [HTTP](#) server and notifies the dispatcher of the incoming request. After the requester is connected to a jserver, it transmits the jserver's response back to the HTTP server.

**resource manager**

An interface and associated software providing access to and controlling a collection of information and/or processes. In three-tier architecture, the resource manager is the backend, typically a database server. An example of a resource manager is a database management system.

**result set**

The set of [rows](#) that gets returned after executing a database query with `SQL SELECT`.

**rollback**

The act of undoing the changes made to a database in a database [transaction](#). Contrast with [commit](#).

**root table view**

The [table view](#) that forms the basis of the database processing on a [transaction manager screen](#).

**row**

An entry in a database [table](#) containing a value for each [column](#). In some database systems, a row is called a record.

**runtime**

The environment in which a user runs a Panther application. The runtime environment is different from the development environment in that the editors and repositories cannot be accessed.

**schema**

An outline of your [database](#) showing the different areas of information (database [tables](#)) and the different pieces of information in each of those areas (database [columns](#)), and illustrating how the pieces relate to each other. Also called a data model.

**screen**

Generic term that refers to the objects created using the screen editor. Screens usually contain collections of [widgets](#). At [runtime](#), a screen can be opened as a [form](#) or as a [window](#).

**screen wizard**

Graphical development tool for designing [database](#) application [screens](#) that use the [transaction manager](#). The screen wizard prompts you for basic design information and uses that information to build a screen that can be used either as is or as a basis for further development.

**scrolling array**

An [array](#) in which the maximum number of [occurrences](#) exceeds the number of array [elements](#). When the array contains more occurrences than elements, Panther lets you scroll the array to bring hidden occurrences into view. If circular scrolling is enabled, Panther lets you continue scrolling beyond the first and last occurrences to the last and first occurrences, respectively.

**select list**

In [database](#) applications, the list of [columns](#) or expressions to be processed by the SQL `SELECT` statement.

**selection widget**

A [widget](#) that allows a user to select from several choices. Panther supports four kinds of selection widgets: [check box](#), [radio button](#), [toggle button](#), and [list box](#). A set of similar selection widgets are usually [grouped](#), so they behave in a certain fashion with respect to the number of possible choices.

**sequential link**

A [link](#) where the [transaction manager](#) processing for the [parent table view](#) occurs first, followed by the processing for the [child table view](#).

**server**

A machine within a networked computing environment that responds to requests from [client](#) programs. In a client/server environment, the process that responds to a client's request for a [service](#). Typically, the request is for information from a resource such as a database; the [application server](#) interacts with the [resource manager](#) to obtain the information. In a two-tier system, the server might contain application logic, in the form of database stored procedures, for example. In web applications, an [HTTP](#) server responds to requests from the web [browser](#).

**server link**

A [link](#) where [transaction manager](#) processing for the [parent](#) and [child table views](#) is done at the same time by the database server.

**server view**

A [table view](#) and all the table views connected to it by [server links](#).

**service**

In a client/server environment, a function performed by a server at the request of a client or of another server. The service is usually associated with accessing a [resource manager](#), typically a database. In Panther, all services must be defined in the [JIF](#).

**service component**

The graphical representation of a service. It is created with a screen editor and contains [widgets](#) and information required to pass data to and from a service. Service components are not visible at [runtime](#), but are placed on the [application server](#) in order to process the service.

**service group**

A named collection of services, defined in the [JIF](#).

**setup file**

File used by Panther at [runtime](#) to find and translate an application's configuration. The environment variables in setup files tell Panther how the application should look, how the hardware is configured, and where system-specific information is located. Setup files can be used to establish installation-wide and application-specific configuration information.

**setup variable**

Variables, usually defined in the [smvars](#) or [smsetup](#) file, that control the overall behavior of Panther and Panther applications. See also [configuration variable](#).

**shifting field**

A [field](#) in which the maximum number of characters (Max Data Length property) allowed for input exceeds the number of characters (Length property) that the field can display at any given time. When the field contains more characters than the field can display, the user can shift the data horizontally—left and right—to bring hidden data into view.

**sibling window**

A [window](#) that is at the same level as another window. Sibling windows can be opened and activated without closing the calling window, and are therefore non-modal. The `VIEWPORT` key allows the user to select among (activate) any open sibling windows. Contrast with [stacked window](#).

**SQL**

Structured Query Language. A language used to access [databases](#) employed by many relational database products. SQL was originally developed by IBM in the 1970's. ANSI standards have been issued for SQL in 1986 and 1992.

**SSL**

Secure Sockets Layer. When implemented, SSL allows for encrypted processing of data between the [browser](#) and the server.

**stacked window**

A [window](#) that is layered on top of other open [screens](#). Once a stacked window is opened, it must be closed before the user can access any underlying screens. This is also called a modal window, and is often used for a dialog box.

**standard server**

A type of server used by [JetNet](#) and [Oracle Tuxedo](#) applications to access clients and [resource managers](#). Provides only those services that have been defined in the [JIF](#).

**style**

A group of settings affecting the appearance and focus protection properties of a [widget](#). A style is applied to a widget by the [transaction manager](#) for a particular [transaction mode](#) based on the widget's *class* property.

**submenu**

A lower level menu that displays additional choices under a menu item on an upper level menu.

**support routine**

A module supplied with Panther's database drivers which supplies all the engine-specific instructions needed to process database statements.

**synchronized array**

Two or more [scrolling arrays](#) whose data scroll together. Synchronized arrays are defined via the Edit menu in the screen editor. The arrays need not be adjacent to each other on the [screen](#), but must contain the same number of [occurrences](#) and onscreen [elements](#).

**system catalog**

A series of [database tables](#) containing information about the database itself, such as the table names, [column](#) names and key information.

**table**

A main subset of information in a [database](#) containing a series of [columns](#) and [rows](#). In some database systems, a table is called a file.

**table view**

A group of [widgets](#), generally from the same database [table](#), which work together in [transaction manager](#) processing.

**tag**

Text surrounded by < and > that identify it to the [browser](#) as [HTML](#) markup text.

**target**

The name of a [browser](#) window or frame that displays an [HTML](#) document.

**TCP/IP**

Transmission Control Protocol/Internet Protocol. The basic communications protocol that is the foundation of the Internet.

**test mode**

A special state in the various editors that allows you to test the object you are editing. You can toggle into and out of test mode without disrupting your editing session.



**three-tier architecture**

A computer architecture that adds a middle layer, called the [application server](#), to the two-tier client-server model. In a three-tier model, the client, or front end, contains the user interface, while the backend, or [resource manager](#), is usually a database. The middle layer, or application server, handles the application logic, providing services to the client and interacting with the resource manager as needed. Communication among the three layers is managed by [middleware](#). Three-tier architecture allows for the greatest flexibility in distributing clients and servers across multiple platforms and machines.

**toggle button**

A [selection widget](#) that allows users to toggle between two settings—turning some option off or on.

**transaction**

A [database](#) transaction is a series of SQL statements that must either be completed as a unit, or not completed at all. At the end of the series, you [commit](#) the transaction in order to save the changes to the database. If there is an error, you can [roll-back](#) the statements in order to return the database to its original state.

A [transaction manager](#) transaction is a series of transaction manager commands that are completed together. A transaction manager transaction, which generally starts on screen entry, can contain several database transactions.

**transaction manager**

A [runtime](#) program which performs the processing needed to view and update [database](#) information. Database statements are generated from settings stored in [screen](#) and [widget](#) properties.

**transaction mode**

One of a series of states which indicate the data entry status of a [screen](#) when using the [transaction manager](#). Transaction modes include: initial, new, update and view.

**Tuxedo**

A TP monitor [middleware](#) product distributed by the Oracle Corporation.

**two-tier architecture**

A computer architecture that separates application functionality into two components: clients and servers. The client, or frontend, is responsible for user interactions and application logic. The server, or backend, is responsible for the

management of resources, such as databases. In two-tier architecture, the client and server are usually located on different machines, with each client having a direct connection to the server.

### **URL**

Universal Resource Locator. The primary naming scheme used to identify web resources. A URL contains the protocol to be used, the domain name of the web server where a resource resides, the port number to be used, and the directory path to access the named web document.

### **UML**

UML (Unified Modeling Language) is a set of (mostly graphical) notations for describing object-oriented systems.

### **validation**

The process of checking user data entry against the keystroke filters you specify in the screen editor. Validation generally occurs when a user tabs out of a [field](#). Validation also occurs for all fields on a [screen](#) at screen exit, or when the `XMIT` key is pressed.

### **VBScript**

Microsoft's scripting language.

### **video file**

A configuration file that provides character-mode-Panther with the information required to use the capabilities of a specific terminal. Panther includes a set of video files for many different terminals. Optionally, you can define a custom video file using the instructions in the *Configuration Guide*.

### **viewport**

The mechanism through which the user views all or part of a [screen](#). The `VIEW-PORT` key allows the user to move, resize, and scroll the viewport.

### **visual object repository**

A special Panther library that can consist of one or more [screens](#). Objects in repository entries can export their properties to other objects on your application screens. By copying repository objects to application screens, you create an [inheritance](#) relationship between the [parent object](#) and [child object](#), which can be maintained to ensure consistency throughout your application.

**web browser**

See [browser](#).

**WebSphere Application Server**

A [middleware](#) product available from IBM for distributed component processing using [Enterprise JavaBeans](#).

**widget**

An object on a Panther [screen](#). Some widgets are used to interact with an application, while others are for display only.

**window**

One of two ways that Panther displays a [screen](#) in an application. Unlike a screen displayed as a [form](#), a screen displayed as a window overlays, but preserves, any screens beneath it. The open window is the [active screen](#) and the image hidden by the open window is saved, to be restored and made active again when the open window is closed. Windows can be [stacked](#) or [sibling](#).

**window stack**

A list that is kept internally by Panther that allows it to remember the order in which [windows](#) were opened, or were rearranged with the `VIEWPORT` key. When a window closes, it is popped off the window stack, and the previous window comes to the fore.

**word wrap**

A property that is applied to multitext widgets. When characters are inserted, Panther wraps any text which is too lengthy for the current line onto to the next line. When characters are deleted from the [field](#), Panther automatically fills the line with words from the next line in the field.

**write-through**

Intrascreen data transfer that uses [local data block \(LDB\) screens](#).

**XML**

Extensible Markup Language. A formatting language commonly used for data interchange. Markup tags specify the meaning of the contained information.



# Master Index

- (hyphen)

in Properties window *Editors* 2-29

## Symbols

# (pound sign)

comments in ISQL *JDB SQL* A-3

comments in JISQL *JDB SQL* 5-20

in key translation file *Cfg* 6-5

with field number *Editors* 8-15

% (percent sign) *GetStart-2Tier* 7-11, *Get-Start-JN* 11-15

as pattern matching operator *JDB SQL* 6-33

in message file *AppDev* 45-8

parameter sequences *Cfg* 7-9

%A

display attributes in messages *AppDev* 45-9, *Editors* 12-3

%B

bell for messages *AppDev* 45-10, *Editors* 12-4

%K

key label in message *AppDev* 45-10, *Editors* 12-4

%Md

force user acknowledgment of messages *AppDev* 45-11

%Mu

acknowledgment of error messages *AppDev* 45-12

%N

carriage returns in messages *AppDev* 45-12

%W

popup window for messages *AppDev* 45-12

\* (asterisk)

in regular expressions *Editors* 14-12

indicator in color palette *Editors* 11-5

+ (plus sign)

in Properties window *Editors* 2-29

:+ (colon-plus processing) *AppDev* 30-2

:: (parameters)

in DECLARE CURSOR command *AppDev* 30-11

:= (colon-equal processing) *AppDev* 30-7

;(semicolon)

command terminator in JISQL *JDB SQL* 5-20

??? (in properties window) *Editors* 2-28, *Editors* 2-29

@ (at)

to reference database driver variable *AppDev* 37-4

@ object modifiers *AppDev* 19-34

@app *AppDev* 19-34

@field\_num *AppDev* 19-35

@id *AppDev* 19-34

@ldb *AppDev* 19-35

@obj *AppDev* 19-36

@screen *AppDev* 19-34

@screen\_num *AppDev* 19-35

@tp\_req *AppDev* 19-36

@widget *AppDev* 19-35

@bi(field) global variable *AppDev* 36-18  
@cgi global variables *Web* 11-1  
@date  
    defining format for *AppDev* 45-19  
    in Calculation property *Editors* 8-28  
    in JPL *AppDev* 19-51  
@dm global variables *Program* 12-1  
@length  
    in Calculation property *Editors* 8-29  
    in JPL *AppDev* 19-51  
@property modifier *AppDev* 19-40  
@range *AppDev* 39-26  
@sum  
    in Calculation property *Editors* 8-28  
    in JPL *AppDev* 19-52  
@tm global variables *AppDev* 36-18  
    @tm\_sel\_cursor  
        default select cursor name *AppDev* 28-8  
@web\_action global variables *Web* 5-9  
@web\_image\_click\_x/y *Web* 8-17  
@web\_posted\_screen *Web* 6-3  
[ ] (square brackets)  
    selection indicator in character mode *AppDev*  
        E-14, *Editors* 9-1  
\  
    (backslash) *GetStart-2Tier* 8-2, *GetStart-JN*  
        12-2  
    in regular expressions *Editors* 14-9  
^ (caret)  
    in regular expressions *Editors* 14-10  
\_ (underscore)  
    as pattern matching operator *JDB SQL* 6-33  
{ } (curly braces)  
    selection indicator in character mode *Editors*  
        9-1  
{ {} }.HTML template tags *Web* 8-5

## Numerics

3D  
    Windows initialization option *Cfg* 3-4

3D property  
    graph widget *Editors* 13-22  
    screen *Editors* 10-23  
screens  
    background color *Editors* 10-24

## A

Accel property  
    menu item *Editors* 25-8  
Accelerator  
    assigning to menu item *Editors* 25-8  
Accessors  
    maximum number for machine *JetNet* 3-13  
Action menu item *Editors* 25-11  
Active Pixmap property  
    in web applications *Web* 3-8  
    menu items *Editors* 25-14  
    push button widget *Editors* 19-4  
    toolbar items *Editors* 25-9  
    widget *Editors* 21-11  
Active property *Editors* 8-7  
    menu item *Editors* 25-10  
    push button widget *Editors* 19-7  
ActiveX controls  
    calling an event handler *Editors* 18-11  
    calling methods *Editors* 18-9  
    embedding in screens *Editors* 18-2  
    event handler in Java *AppDev* 21-6  
    manipulating at runtime *AppDev* 23-13  
    runtime license *Editors* 18-4  
    setting ActiveX properties *Editors* 18-3  
        at runtime *Editors* 18-6  
    setting color properties *Editors* 18-5  
    setting runtime properties *QckRef* 1-121  
    setting the Codebase property *Web* 8-27  
    using in Web applications *Web* 8-24  
Adding  
    methods for components *Editors* 7-4  
Addition operation  
    in JDB *JDB SQL* 6-37

- Additional table *GetStart-2Tier* 11-1, *GetStart-2Tier* 11-3, *GetStart-JN* 15-1, *GetStart-JN* 15-3
- Address label reports *Editors* 5-11
  - setting dimensions *Editors* 5-22
- Administrative Console
  - setting location of *Cfg* 2-7
- Advertise and Unadvertise Events *JetNet* 6-8
- Advertise event *JetNet* 6-8
  - built-in handlers *JetNet* 6-10
  - handler contract *JetNet* 6-9
- Aggregate functions
  - aliasing to widgets *AppDev* 29-6
  - in automated SQL generation *AppDev* 33-17
  - in JDB *JDB SQL* 6-4
    - with GROUP BY clause *JDB SQL* 6-21
- ALIAS
  - dbms command
    - aliasing column names *AppDev* 29-4, *Program* 11-5
- Aliasing
  - colors *AppDev* 45-26
  - column names to widgets *AppDev* 29-4, *Program* 11-5
  - Web application fonts *Web* 3-17
- Align command *Editors* 9-14
- Aligning widgets *Editors* 9-14
  - on grid coordinate *Editors* 9-15
  - with Snap to Grid *Editors* 9-15
- ALL keyword
  - in JDB *JDB SQL* 6-49
- Alphabetic data *Editors* 14-4
  - range checking *AppDev* 48-5
  - specifying range *Editors* 14-13
- Alphanumeric data *Editors* 14-5
- ALT keys
  - hex value *Cfg* 6-11
- Alt Scroll Func property *Editors* 8-25, *Upgrade*
- A-2
- Alt Tab property *Editors* 8-14
- Alternate character sets *Cfg* 7-41
- Alternative scroll driver *Editors* 8-25
- Animation *AppDev* 39-8, *AppDev* 39-20
- ANSI terminal
  - latch attributes *Cfg* 7-34
  - sample video file *Cfg* 7-49
  - setting color *Cfg* 7-32
- ANY keyword
  - in JDB *JDB SQL* 6-49
- APP1-APP63 (application function keys)
  - hex value *Cfg* 6-12
- Application
  - aborting *Program* 5-104, *Program* 5-241
  - booting *GetStart-JN* 1-11, *GetStart-JN* 1-25
  - booting from command line *JetNet* A-5
  - configuring middleware *JetNet* 3-1
  - connecting to *GetStart-JN* 1-13, *GetStart-JN* 1-26
  - customizing *AppDev* 43-7
  - debugging *AppDev* 39-19
  - defining project requirements *AppDev* 3-1
  - escaping to operating system *Program* 5-297
  - exiting base form *Cfg* 2-28, *AppDev* 24-3
  - getting handle for instance *Program* 5-384
  - getting handle for object *Program* 5-432
  - getting handle to frame *Program* 5-383
  - getting initial state *Program* 5-382
  - getting previous handle *Program* 5-385
  - getting runtime properties *Program* 5-428
  - global variables *Program* 5-231, *Program* 5-242
  - initialization
    - error message *Program* 5-227
  - initializing *Program* 5-228
    - key translation file *Upgrade* B-3
  - libraries *JetNet* 2-3
  - menu
    - attaching *AppDev* 15-4
  - naming *GetStart-JN* 1-8, *GetStart-JN* 1-21

- optimizing *AppDev* 41-1
- packaging checklist *AppDev* D-2, *JetNet* F-2
  - Motif/UNIX *JetNet* F-5
  - Windows *AppDev* D-2, *JetNet* F-2
- Panther/WebSphere
  - development process *WebSphere* 1-5
  - resetting display *Program* 5-446
  - restarting *GetStart-JN* 1-13, *GetStart-JN* 1-26
  - returning after escape *Program* 5-450
  - setting runtime properties *Program* 5-435, *Program* 5-439
  - setting up
    - JetNet *JetNet* E-1
  - shutting down from command line *JetNet* A-9
  - specifying splash screen for *AppDev* 43-8
  - specifying startup file *AppDev* 43-8
  - starting *Program* 5-255
  - upgrading from JAM 5 *Upgrade* 4-1
  - upgrading from JAM 7 *Upgrade* 1-1, *Upgrade* 2-1
  - using Java methods *Program* 7-2
- Application architecture *AppDev* 1-2
  - defining *AppDev* 4-1
  - specifying *GetStart-JN* 7-8
- Application behavior
  - changing default
    - in Windows *Cfg* 3-4
  - options in Motif *Cfg* 4-7
  - understanding events *AppDev* 17-1
  - variables for controlling *Cfg* 2-14
- Application client
  - configuring *WebSphere* 2-8, *WebSphere* 8-3
- Application components
  - activating and deactivating *JetNet* 4-2
  - adding and deleting *JetNet* 3-6
  - building *AppDev* 1-12
  - editing properties *JetNet* 3-7
  - forcibly deactivating *JetNet* 4-5
  - integrating *AppDev* 1-20
  - interaction *JetNet* 1-3
  - referencing *AppDev* 19-33
    - with object modifiers *AppDev* 19-34
- Application configuration properties *JetNet* 3-7
- Application data *AppDev* 45-45
- Application Data option
  - in debugger *AppDev* 39-9
- Application development
  - accessing the database *AppDev* 27-1, *AppDev* 28-1
  - defining the project team *AppDev* 1-3
  - defining the requirements *AppDev* 1-2, *WebSphere* 3-1
  - development environment *AppDev* 1-6
  - preparing for
    - in Panther/WebSphere *WebSphere* 4-1
  - programming application events *AppDev* 1-16
  - steps *AppDev* 1-2
  - with the transaction manager *AppDev* 31-2
- Application directory *JetNet* 2-2, *JetNet* 3-14
  - creating *GetStart-2Tier* 1-2, *GetStart-JN* 1-2, *GetStart-JN* 1-16
  - for COM components *COM/MTS* 3-11
  - for web applications *Web* 2-3, *Web* 12-4
- Application function keys (APP1-APP63)
  - hex value *Cfg* 6-12
- Application messages *AppDev* 45-6
  - header file *AppDev* A-34
- Application model selection
  - in screen wizard *Editors* 4-17
- Application Name property *JetNet* 3-8
- Application Password property *JetNet* 3-12
- Application runtime properties *QckRef* 1-103
  - getting *Program* 5-422
- Application server
  - advertising services
    - in JetNet/Tuxedo *Program* 2-2
  - configuring *WebSphere* 8-2
    - in Panther/WebSphere *WebSphere* 2-1
  - creating
    - in WebSphere *WebSphere* 2-6
  - defined *JetNet* 1-3
  - defining



- server processes *WebSphere* 8-3
- preparing *AppDev* 1-4, *AppDev* 5-1
- Application server engine
  - configuring *Install* 5-4, *Install* 8-6
  - licensing *Install* E-3
- Application state
  - saving *Web* 6-1
- Application variables
  - order of precedence *Cfg* 2-2
- Application-level event scope
  - advertise handlers *JetNet* 6-9
  - exception handlers *JetNet* 6-12
  - jif\_changed handlers *JetNet* 6-16
  - message handlers *JetNet* 6-19
  - post\_request handlers *JetNet* 6-21
  - post\_service handlers *JetNet* 6-25
  - pre\_request handlers *JetNet* 6-21
  - pre\_service handlers *JetNet* 6-25
  - request\_received handlers *JetNet* 6-22
  - server\_exit handlers *JetNet* 6-24
  - unadvertise handlers *JetNet* 6-9
  - unload handlers *JetNet* 6-29
- Architecture
  - specifying for screens in screen wizard *Editors* 4-17
- Area attributes
  - assigning *Cfg* 7-29
  - defined *Cfg* 7-28
  - removing *Cfg* 7-30
- Area graphics
  - setting *Cfg* 7-31
- AREAATT keyword (video file) *Cfg* 7-29
- ARGR keyword (video file) *Cfg* 7-30
- Argument passing
  - in reports *Rpts* 5-2, *Rpts* 9-17
- Arithmetic operators
  - in JDB *JDB SQL* 6-37
- Armed Pixmap property
  - menu items *Editors* 25-14
  - push button widget *Editors* 19-4
  - toolbar items *Editors* 25-9
- widget *Editors* 21-11
- Array
  - accessing in JPL *AppDev* 19-39
  - behavior of *Editors* 8-20
  - clearing all data *AppDev* 23-8, *Program* 5-109
    - in transaction manager *AppDev* 36-10
  - copying data *Program* 5-119
  - creating *Editors* 10-14
  - declaring in JPL *Program* 2-95
  - defining *AppDev* 14-5
  - deleting occurrence *AppDev* 23-8, *Program* 5-150
  - elements *AppDev* 14-4
  - find next synchronized *Program* 5-390
  - getting current occurrence number *Program* 5-413
  - horizontal *Editors* 10-14
  - inserting occurrence *AppDev* 23-8, *Program* 5-236
  - numbering *AppDev* 14-6
  - offscreen occurrence specification *Editors* 10-15
  - reading file contents into *Program* 5-178
  - required data and *Editors* 14-15
  - scrolling *AppDev* 14-6, *Editors* 10-15
  - setting array size *AppDev* 14-6
  - shrinking out empty elements *Rpts* 8-18
  - sorting at runtime *Program* 5-410, *Program* 5-411
  - spacing between occurrences *Editors* 10-14
  - sum of occurrences *AppDev* 19-52
  - synchronizing *Editors* 8-20
  - trimming *Program* 5-479
  - using text editor *Program* 5-174
  - value source for graph widget *Editors* 13-25
  - writing contents to file *Program* 5-172
- Array Size property *Editors* 10-14
  - dynamic label widgets *Editors* 13-4
  - synchronized group *Editors* 8-23
- Arrow keys
  - setting horizontal movement *Cfg* 2-15

- setting vertical movement *Cfg* 2-16
  - wrapping behavior *Cfg* 2-18
  - ARROWS keyword (video file) *Cfg* 7-46
  - ASC keyword
    - specifying data order *AppDev* 33-21, *JDB SQL* 6-42
  - ASCII
    - extended control codes *Cfg* 7-7
    - non-ASCII display *AppDev* 45-45
    - table of mnemonics and hex values *Cfg* 6-13
  - ASCII output
    - JetNet configuration file *JetNet* A-4
    - menus *AppDev* A-22
    - reports *AppDev* A-11
    - screens *AppDev* A-11
    - service components *AppDev* A-11
  - ASGR keyword (video file) *Cfg* 7-31
    - parameters *Cfg* 7-31
  - Asynchronous service call *Program* 2-69
  - Attributes property
    - for widgets *Web* 8-4
  - Auto Advertised Services option *GetStart-JN* 2-3, *JetNet* 3-23
  - Auto Expand property *Web* 3-11
  - Auto Help property *Editors* 12-8
  - Auto Horiz Resize property *Editors* 9-9
  - Auto Item property *Editors* 12-10
  - Auto Raise/Close *AppDev* 39-8
  - Auto Vert Resize property *Editors* 9-9
  - Automatic functions
    - defined *AppDev* 44-2
    - example *AppDev* 44-65, *AppDev* 44-71
    - installing
      - field function *AppDev* 44-19
      - group function *AppDev* 44-27
      - screen function *AppDev* 44-13
    - screen function *AppDev* 17-8
  - Autonumbering
    - grid columns *Editors* 15-7
    - grid rows *Editors* 15-9
  - Autotab *Editors* 8-19
  - AVG function
    - in JDB *JDB SQL* 6-4
  - Axis
    - graph widget *Editors* 13-15
    - labelling *Editors* 13-17
    - positioning *Editors* 13-16
    - tick marks *Editors* 13-18
  - AxView *Editors* 18-13
- B**
- Background color *Editors* 11-5
    - resource in Motif *Cfg* 4-5
    - setting *Program* 5-98
  - Background status
    - displaying *AppDev* 26-9
  - Backslash
    - inputting *Cfg* 7-6
  - Backtab *Program* 5-91
  - Backup master machine *JetNet* 3-8
  - Backward compatibility
    - before image data *Program* 5-522
  - Backward scrolling
    - viewing database rows *AppDev* 29-12, *Program* 11-25, *Program* 11-26, *Program* 11-50
  - Bar chart
    - specifying in report wizard *Editors* 5-20
  - Bar Type property
    - graph widget
      - bar/line graph *Editors* 13-41
  - Bar/line graph *Editors* 13-39
    - bar type *Editors* 13-41
    - creating *Editors* 13-39
    - data series style *Editors* 13-26
    - legend *Editors* 13-10, *Editors* 13-11, *Editors* 13-30
  - Base form
    - exiting *Cfg* 2-28, *AppDev* 24-3

- Base window
  - getting Widget ID *Program* 5-589
- Basic colors
  - defined *Editors* 11-2
  - defining in Motif *Cfg* 4-4
  - defining in Windows *Cfg* 3-7
  - keywords *AppDev* 45-27
  - listed *Editors* 11-4
- BBL *JetNet* 1-3
- Before image processing
  - backward compatibility *Program* 5-522
  - comparing values *Program* 5-93
  - copying current values *Program* 5-95
  - initializing *Program* 5-96
  - modifying data in transaction manager *AppDev* 36-7, *AppDev* 36-26
  - retrieving data *Program* 5-208, *Program* 5-213
- Behavior variables
  - defining *Cfg* 2-14
  - designating active screens
    - in character mode *Cfg* 5-2
  - display attribute keywords *Cfg* 2-3
  - for character-mode screens *Cfg* 5-2
  - for cursor appearance *Cfg* 2-15
  - for filenames *Cfg* 2-25
  - for label text display *Cfg* 5-1
  - for message display *Cfg* 2-20
  - for screen entry/exit processing *Cfg* 2-28
  - for scrolling *Cfg* 2-23
  - for shifting *Cfg* 2-23
  - group attributes *Cfg* 2-26
  - zoom *Cfg* 2-23
- Bell
  - in status line text *Editors* 12-4
  - invoking *Program* 5-92
  - setting in messages *AppDev* 45-10, *Program* 2-39
- BELL keyword (video file) *Cfg* 7-47
- BETWEEN predicate
  - in JDB *JDB SQL* 6-7, *JDB SQL* 6-54
- bin2c *AppDev* A-2
- bin2hex *AppDev* A-4
- BINARY
  - dbms command
    - fetching binary column values *Program* 11-8
- Binary columns
  - writing to database *AppDev* 30-10
- Binary variables
  - deleting occurrence *Program* 5-3
  - getting maximum number of occurrences *Program* 5-7
  - getting maximum occurrence length *Program* 5-6
  - getting occurrence data *Program* 5-5
  - getting occurrence length *Program* 5-4
  - getting pointer to occurrence *Program* 5-2
  - setting occurrence length *Program* 5-8
- Binding
  - supplying database column values *AppDev* 28-6, *AppDev* 30-11
- binherit *AppDev* A-6, *GetStart-2Tier* 8-5, *GetStart-JN* 12-5
- Bitmap
  - custom mouse cursor shapes *Editors* 6-21
- Bit-mapped attributes *Cfg* 7-36
- Bitwise expression *AppDev* 19-54
- Bitwise operators *AppDev* 19-52
- Blank lines
  - consolidating from adjacent layout areas *Rpts* 8-20
  - shrinking out *Rpts* 8-15
- Blank numeric field *Editors* 10-22
- Blank pages
  - inserting *Rpts* 8-8
- Blink display attribute
  - setting *Editors* 11-7
- Blocking timeout
  - setting default *JetNet* 3-12

- BMP files *Editors* 21-10
- Body Attributes property
  - for web screens *Web* 8-3
- BODY element *Web* 8-1
  - setting attributes *Web* 8-3
- Bold property *Editors* 10-10
- Boot
  - application *GetStart-JN* 1-11, *GetStart-JN* 1-25
  - unable to *GetStart-JN* B-2
- Border
  - keywords *Cfg* 7-44
  - limiting attributes *Cfg* 7-46
  - styles
    - specifying alternate *Cfg* 7-44
    - zoom window *Cfg* 5-5
- BORDER keyword (video file) *Cfg* 7-44
- Border property
  - character mode screens *Editors* 6-22
  - list box widget *Editors* 20-4
  - screens *Editors* 6-22
- Border Style property
  - screens *Editors* 6-22
- Border Width property
  - graph widget legend *Editors* 13-11
- BOTTOMRT keyword (video file) *Cfg* 7-22
- Bourne shell *GetStart-JN* C-10
- BOX keyword (video file) *Cfg* 7-46
- Box widget *Editors* 2-24, *Editors* 21-1
  - 3D (in Windows) *Editors* 10-25
  - default style *Editors* 21-2
  - including title *Editors* 21-4
  - specifying alias style *Editors* 21-2
  - specifying style *Editors* 21-3
- BRDATT keyword (video file) *Cfg* 7-46
- Breakpoint
  - clearing *AppDev* 39-21
  - listing of *AppDev* 39-5
  - setting *AppDev* 39-20
    - in JPL *AppDev* 39-15
    - on event *AppDev* 39-23
    - sorting *AppDev* 39-10
    - specifying location *AppDev* 39-24
- Breaks menu
  - for debugger breakpoints *AppDev* 39-11
- broker.bin
  - creating *GetStart-JN* 1-7, *GetStart-JN* 1-20
  - specifying location of *GetStart-JN* 1-11, *GetStart-JN* 1-24
- Browser
  - base font *Web* 1-4
  - cache settings *Web* 2-12
  - specifying events
    - using events *Web* 9-2
  - target window *Web* 8-13
  - title bar *Web* 8-14
  - viewing capabilities *Web* 1-4
- Browser caching *Web* 6-2
  - BrowserData option *Web* 12-5
- Buffer
  - copying data to *Program* 5-215
  - setting size of output *Cfg* 7-22
- BUFSIZ keyword (video file) *Cfg* 7-22
- Built-in control functions *AppDev* 18-7, *Program* 3-1
- Built-in handlers *JetNet* 6-6
  - advertise events *JetNet* 6-10
  - exception events *JetNet* 6-15
  - jif\_changed events *JetNet* 6-17
  - message events *JetNet* 6-20
  - post\_requests events *JetNet* 6-21
  - post\_service events *JetNet* 6-28
  - pre\_request events *JetNet* 6-21
  - pre\_service events *JetNet* 6-27
  - request\_received events *JetNet* 6-23
  - server\_exit events *JetNet* 6-24
  - unadvertise events *JetNet* 6-10
  - unload events *JetNet* 6-31
- Built-in services *JetNet* 7-1
- Bundles
  - appending data *Program* 5-82, *Program* 5-85
  - counting items in *Program* 5-210

- counting occurrences *Program* 5-211
- creating *Program* 5-120
- destroying *Program* 5-202
- getting name *Program* 5-212
- of data in JPL *Program* 2-64
- optimizing bundle storage *Program* 5-84
- reading an occurrence *Program* 5-209
- receiving *Program* 5-443
- verifying name *Program* 5-238
- writing to *Program* 5-471
- Button/Menu Status property *Editors* 23-9
- Buttons
  - types of *Editors* 2-22
- C**
- C compiler *Install* 6-2
- C functions
  - adding to COM components *COM/MTS* C-4
  - calling *AppDev* 20-6
  - executing from control string *AppDev* 18-5
  - linking to executable *AppDev* 20-4, *AppDev* 42-4
  - programming
    - for COM components *COM/MTS* 3-15
    - for EJBs *WebSphere* 5-19
  - writing your own *AppDev* 20-1
- C Type property *AppDev* 30-4
  - formatting fetched data *AppDev* 29-16
  - writing values to database
    - character strings *AppDev* 30-10
    - hexadecimal strings *AppDev* 30-10
    - numeric data *AppDev* 30-7
- Cache files
  - deleting with monitor utility *Web* A-2
- Cache Service Containers property *JetNet* 3-27
- Cached data
  - CacheDirectory option *Web* 12-6
  - in HTML file *Web* 6-2
  - on HTTP server *Web* 6-3
  - retaining *Web* 6-3, *Web* 12-8
- Calculated report output
  - resetting page number *Rpts* 8-3
- Calculation
  - in fields *Editors* 8-26
  - using a date *Editors* 8-28
- Calculation expression *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
- Calculation property *Editors* 8-26
  - in web applications *Web* 3-8
- Calling Java Object Methods *AppDev* 21-19
- Calling JPL procedure
  - as hook function *AppDev* 19-21
  - from control string *AppDev* 19-22
  - through call command *AppDev* 19-23
  - within expression *AppDev* 19-23
- Cancel Check Out *AppDev* 10-8
- Cancel push button
  - creating *Editors* 19-6
- Card Entry Function property *Editors* 16-9
- Card Exit Function property *Editors* 16-9
- Card Number property *Editors* 16-8
- Carriage return
  - in message
    - %N *AppDev* 45-12
- Cascading stylesheets
  - setting stylesheet type *Web* 8-19
- Case sensitivity
  - alias names *AppDev* 29-5
  - column names *AppDev* 7-4, *AppDev* 7-8
  - connection names *AppDev* 8-3
  - cursor names *AppDev* 28-5
  - engine names *AppDev* 7-4, *AppDev* 7-7
  - filenames *Cfg* 2-25
  - specifying for library members *AppDev* A-16
  - transaction manager commands *Program* 8-4
  - widget names *AppDev* 29-3
- CATQUERY
  - dbms command
    - writing results to widget or file *AppDev* 29-19, *Program* 11-10

- CBDSEL keyword (video file) *Cfg* 7-47
- CBSEL keyword (video file) *Cfg* 7-47
- Centering output *Rpts* 8-13
- Centering text
  - on box widgets *Editors* 10-6
- Century specification *Cfg* 2-28
- CGI (Common Gateway Interface) *Get-Start-2Tier* 2-1, *GetStart-JN* 5-1
  - directory *Web* 2-2
  - setting the type of requester executable *Web* 2-6
  - setting type of requester executable *Web* 2-2, *Web* B-1
- CHANGE
  - transaction manager command
    - switching transactions *Program* 8-10
- char (data type)
  - in JDB *JDB SQL* 6-15
- CHAR\_VAL\_OPT *Cfg* 2-28
- Character classes
  - in regular expressions
    - term *Editors* 14-10
  - special characters in *Editors* 14-10
- Character data
  - 8-bit *AppDev* 45-45
- Character mode
  - multiple select mode *Editors* 2-9
  - requirements *Install* 6-1
  - selecting multiple widgets *Editors* 9-2
  - setting behavior variables for *Cfg* 5-1
  - setting line and box style in cmap file *AppDev* 45-34
- Character sequence
  - defined *Cfg* 6-6
- Character set
  - 8-bit translation *Cfg* 7-41
  - graphics *Cfg* 7-41
- Character strings
  - reading from database *AppDev* 29-15
  - writing to database *AppDev* 30-6, *AppDev* 30-10
- Character-level regular expression *Editors* 14-8
- Characters
  - as unit of measurement *Editors* 9-7
- Chart Type property
  - graph widget *Editors* 13-5
- Check box widget *Editors* 2-23, *Editors* 20-2
  - 3D (in Windows) *Editors* 10-25
  - appearance of *Editors* 20-2
  - displaying image on *Editors* 21-10
  - event handler in Java *AppDev* 21-7
  - Web application usage *Web* 3-10
- Check digit function *AppDev* 44-40
  - executing *Program* 5-105
  - return codes *AppDev* 44-40
- Check Digit property *Editors* 8-29
- Check In *AppDev* 10-8
- Check Out *AppDev* 10-7
- Check Overlap on Screen Save menu option *AppDev* E-17
- Checklists
  - for COM component deployment *COM/MTS* D-1
- Child List window *AppDev* E-32
- Child property
  - determining child table view *AppDev* 31-8
  - table views *Editors* 22-14
- Child widget
  - finding *AppDev* E-32
  - finding parent of *AppDev* E-31
  - turning inheritance on/off *AppDev* E-30
- Circular property
  - array *Editors* 10-15
  - grid widget *Editors* 15-9
  - synchronized group *Editors* 8-23
- Class factory
  - setting name of *Cfg* 2-8
- Class name (Motif)
  - application *Cfg* 4-2, *Cfg* 4-12
  - field widgets *Cfg* 4-15
  - menu widgets *Cfg* 4-17
  - screen widgets *Cfg* 4-14

- widget *Cfg* 4-12
- Class property *AppDev* 36-14
  - menu items *Editors* 23-7, *Editors* 25-11
  - widgets *Editors* 23-4, *Editors* 23-5
- CLASSPATH *Install* 5-4, *WebSphere* 8-4
- CLEAR
  - transaction manager command
    - clearing data in widgets *Program* 8-11
    - setting behavior *Program* 5-75
- Clearing data *GetStart-2Tier* 12-15, *GetStart-JN* 16-17
- Clearing Protect property *Editors* 8-10
  - in screen editor *Editors* 14-16
  - in styles editor *Editors* 23-12
  - scale widgets *Editors* 14-20
- Client
  - accessing WebSphere Application Server *Cfg* 2-10
  - configuring environment of *AppDev* 6-1, *Install* 5-3, *Install* 8-11
  - environment *JetNet* 2-8
  - executables *Install* C-2
  - license-related messages *Install* G-12
  - licensing *Install* E-3
  - making executables
    - in Windows *COM/MTS* C-2
  - notifying from application server
    - in JetNet/Tuxedo *Program* 2-43
- Client authentication
  - data function
    - in JetNet/Tuxedo *Program* 2-13
  - in JetNet/Tuxedo *Program* 2-13
  - installing data function *AppDev* 44-28
  - installing post-connection function *AppDev* 44-30
  - post-connection function
    - in JetNet/Tuxedo *Program* 2-14
  - setting application password *JetNet* 3-12
- Client connection
  - closing
    - in JetNet/Tuxedo *Program* 2-10
    - enabling *JetNet* 2-8
  - opening
    - calling Tuxedo from EJBs *Cfg* 2-12
    - in JetNet/Tuxedo *Program* 2-11
- Client events *JetNet* 6-1
- Client executables *AppDev* 42-1
- Client library *AppDev* 1-13
- Client screens
  - creating *WebSphere* 7-2
  - in COM applications *COM/MTS* 4-1
  - in EJB applications *WebSphere* 7-1
  - testing *GetStart-2Tier* 5-1, *GetStart-JN* 9-3
- Client service call code
  - written to clipboard *Editors* 24-23
  - written to file *Editors* 24-23
- Client setup *GetStart-2Tier* 1-1, *GetStart-JN* 3-1, *GetStart-JN* B-3
  - under UNIX *GetStart-JN* 3-2
  - under Windows *GetStart-2Tier* 1-1
- Client Timeout property *JetNet* 3-18
- Client/server
  - comparison *GetStart-2Tier* 2-2, *GetStart-JN* C-2, *JetNet* 1-1
- Clients
  - building screens for *AppDev* 13-1
- Clipboard
  - writing code from JIF to *Editors* 24-21
- clnt2svr *JetNet* A-2, *JetNet* B-1
  - and transaction model *JetNet* 7-1
- Clock Type property *Editors* 10-18
- CLOSE
  - transaction manager command
    - closing database transaction *Program* 8-13
- CLOSE CONNECTION
  - dbms command
    - closing database connection *Program* 11-14
    - closing database connections *AppDev* 8-4
- CLOSE CURSOR
  - dbms command
    - closing database cursor *AppDev* 28-9, *Pro-*

- gram* 11-15
  - Close Item property *AppDev* 13-2, *Editors* 6-25
  - CLOSE\_ALL\_CONNECTIONS
    - dbms command
      - closing all database connections *Program* 11-13
      - closing database connections *AppDev* 8-5
  - Closing
    - framesets *Editors* 17-9
    - screens *AppDev* 13-7
  - CLR key (clear all)
    - clock update and *Editors* 10-18
  - CLSID
    - generating new *Editors* 7-10, *COM/MTS* 3-12
  - cmap2bin *AppDev* A-8
  - CMFLGS keyword (video file) *Cfg* 7-25
  - CMSG keyword (video file) *Cfg* 7-39
  - COF keyword (video file) *Cfg* 7-27
  - COLMS keyword (video file) *Cfg* 7-22
  - Colon preprocessing *AppDev* 19-27, *AppDev* 30-1
    - colon equal *AppDev* 30-7
    - colon plus *AppDev* 30-2
    - examples *AppDev* 30-8
    - simulating from C *Program* 5-23
    - substring specifier *AppDev* 19-29
  - Color attributes
    - setting
      - for area *Program* 5-98
  - COLOR keyword (video file) *Cfg* 7-32
  - Color Name property *Editors* 11-3
  - Color palette
    - defining colors in Motif *Cfg* 4-4
    - defining colors in Windows *Cfg* 3-7
  - Color properties
    - 3D effect on *Editors* 10-24
    - aliasing colors *AppDev* 45-26
    - changing *Editors* 11-3
    - container color
      - specifying on Color palette *Editors* 11-5
    - display attributes
      - keywords *AppDev* 45-27
    - setting *Editors* 11-6
  - graph widget data series *Editors* 13-29
  - highlighted colors
    - in Windows *AppDev* 45-27
    - in frameset *Editors* 17-6
  - Motif resources for overriding *Cfg* 4-5
  - Panther basic colors
    - keywords *AppDev* 45-27
  - screens *Editors* 2-32
  - transaction styles *Editors* 23-10
  - types defined *Editors* 11-1
  - widgets *Editors* 2-30
- Color terminal
    - display attributes in messages *AppDev* 45-9
  - Column Click Action property *AppDev* 17-17, *Editors* 15-11, *Editors* 15-13
  - Column click behavior
    - functions
      - specifying *Editors* 15-13
  - Column Click Func *AppDev* 17-17
  - Column Click Sort *AppDev* 17-17
  - Column Edits subproperties *AppDev* 11-7
  - Column list *JDB SQL* 3-6
  - Column Move Resize property *Editors* 15-13
  - Column Name property *AppDev* 33-3
    - in automated SQL generation *AppDev* 33-10, *AppDev* 33-33, *AppDev* 33-37
  - Column property *AppDev* E-28, *AppDev* E-29
  - Column reports *Editors* 5-5
  - Column Separators property *Editors* 15-8
  - Column Title property *GetStart-2Tier* 8-4, *GetStart-JN* 12-4
    - set by screen wizard *Editors* B-2, *Editors* B-6
  - Column Titles property *AppDev* 31-13
    - for grid widgets *Editors* 15-7
    - set by screen wizard *Editors* B-2
- COLUMN\_NAMES
    - dbms command
      - mapping column names only *Program* 11-17



## Columns

Database columns *JDB SQL* 2-3

## Columns property

for splitter widgets *Editors* 17-4

table view *Editors* 22-4

## COM

accessing databases *COM/MTS* 2-3

creating named property *Program* 5-368

creating object *Program* 5-367

defined *COM/MTS* 1-1

error handling *Program* 5-442

features of *COM/MTS* 1-3

preparing for development *COM/MTS* 2-1

COM components *Editors* 7-9

building *COM/MTS* 3-1

building client screens *COM/MTS* 4-1

calling methods *COM/MTS* 4-3, *Program* 5-393

types of parameters *COM/MTS* 4-3

calling *QueryInterface* *Program* 5-114

creating *COM/MTS* 4-1

defining methods *COM/MTS* 3-3

defining properties *COM/MTS* 3-7

deploying *AppDev* 1-6, *COM/MTS* D-1  
using COM *COM/MTS* 5-3

destroying *COM/MTS* 4-2

determining type of deployment *COM/MTS* 3-18

getting error code *Program* 5-115

getting error message *Program* 5-116

getting properties *COM/MTS* 4-5

getting property settings *Program* 5-404

receiving method's parameters *Program* 2-59

returning method's parameters *Program* 2-61

saving *Editors* 7-11, *COM/MTS* 3-16

sending error to client *Program* 2-53

setting event handler *Program* 5-117

setting properties *COM/MTS* 4-5

setting property settings *Program* 5-408

updating DLL template *COM/MTS* C-4

Combo box widget *Editors* 2-21, *Editors* 14-20

3D (in Windows) *Editors* 10-25

and autotab behavior *Editors* 8-19

assigning double-click event to *Editors* 8-11

controlling size of *Editors* 14-22

event handler in Java *AppDev* 21-7

populating *Editors* 14-21

scrolling *Editors* 14-22

specifying initial text *Editors* 14-24

updating contents *Program* 5-555

## Command

launching *Program* 5-272

## Command line

Motif *Cfg* 4-11

name switch *Cfg* 4-2

## Comments

in JPL *AppDev* 19-5

in key translation files *Cfg* 6-5

## Comments property

assigning in screen wizard *Editors* 4-22

report node *Rpts* 3-10

screens *Editors* 6-30

widgets *Editors* 8-30

## COMMIT

dbms command

committing transactions *AppDev* 28-10

## Commit

transaction in ISQL *JDB SQL* A-4

transaction in JDB *JDB SQL* 3-9

Common library *AppDev* 1-13

## Comparison operators

in JDB *JDB SQL* 6-38

## Compiling

Java programs

setting command for *Cfg* 2-8

## Component development

configuring environment for COM *Install* 5-7

Component Interface *Editors* 2-9

## Component interface

defining *Editors* 7-4

for COM *COM/MTS* 3-3

- for EJBs *WebSphere* 5-3
- Component system
  - specifying
    - as COM *COM/MTS* 4-1
    - as EJB *WebSphere* 7-3
- Components
  - creating *Program* 5-398, *Program* 5-399, *Program* 5-400
  - destroying *Program* 5-402
- Compose key *Cfg* 7-41
- Composition properties
  - widgets *Editors* 2-32
- COMPRESS keyword (video file) *Cfg* 7-48
- CON keyword (video file) *Cfg* 7-27
- Conceal Tabs property *Editors* 16-7
- config.sys
  - environment space *Install* H-3
- Configuration
  - converting message files to binary *AppDev* A-29
  - converting video files *Cfg* 8-7
  - for the tutorial *GetStart-2Tier* A-1, *GetStart-JN* A-1
  - JDB *JDB SQL* 4-6
  - of debugger *AppDev* 39-6
  - Panther/WebSphere applications *WebSphere* 2-1
  - setting location of Panther *Cfg* 2-5
  - setting up development clients *AppDev* 6-1
  - setting web application directory *Web* 2-3
  - web applications *WebSphere* 2-14
  - web initialization file *Web* 12-1
- Configuration map file
  - aliasing colors *AppDev* 45-26
  - colors section *AppDev* 45-26
  - converting to binary *AppDev* A-8
  - defining default fonts *AppDev* 45-36
  - making memory-resident *AppDev* 42-11
  - object specification keywords *AppDev* 45-32
  - scheme section *AppDev* 45-30
  - setting location of *Cfg* 2-6
- Configuration variables
  - for setting path *Cfg* 2-9
- Configure Toolbars menu option *Editors* 2-18
- Connecting
  - to database
    - in Editor *AppDev* E-12
    - to JetNet *AppDev* E-9
    - to JetNet via the request broker *AppDev* 9-3
- CONNECTION
  - dbms command
    - setting database connection *AppDev* 8-4
    - setting default database connection *Program* 11-19
- Connections
  - to JDB database *JDB SQL* 4-7
- Constant data *Editors* 14-21
- Constants in JPL *AppDev* 19-31
- Container
  - counting number of widgets *Program* 5-298
  - creating object list *Program* 5-302
  - destroying object list *Program* 5-299
  - traversing *Program* 5-300
- Container color *Editors* 11-2
  - defined *Editors* 11-5
- Context global variables
  - saving Web application state *Web* 6-6
- Context Web global variables *Web* 7-2
- Continuation character *AppDev* 19-4
- Continuation file
  - scrolling through select set *AppDev* 29-12
  - specifying *Program* 11-50
    - in the transaction manager *AppDev* 36-5
    - specifying availability of *Editors* 22-6
    - using in transaction manager *Program* 5-501
- CONTINUE
  - availability in transaction manager *Program* 5-501
  - dbms command
    - fetching next set of rows *AppDev* 29-11, *Program* 11-20
  - dbms commands *Editors* 22-6

- transaction manager command
  - fetching next set of data *Program* 8-16
- CONTINUE\_BOTTOM
  - dbms command
    - fetching last set of rows *Program* 11-22
  - transaction manager command
    - fetching last set of rows *Program* 8-19
- CONTINUE\_DOWN
  - dbms command
    - fetching next set of rows *Program* 11-24
  - transaction manager command
    - fetching next set of rows *Program* 8-23
- CONTINUE\_TOP
  - dbms command
    - fetching first set of rows *Program* 11-25
  - transaction manager command
    - fetching first set of rows *Program* 8-27
- CONTINUE\_UP
  - dbms command
    - fetching previous set of rows *Program* 11-26
  - transaction manager command
    - fetching previous set of rows *Program* 8-31
- Control characters
  - entering *Cfg* 7-7
- Control flow
  - in HTML templates *Web* 8-6
  - in JPL *AppDev* 19-4
- Control function *AppDev* 44-44
  - example *AppDev* 44-87
  - return codes *AppDev* 44-45
  - standard argument *AppDev* 44-44
- Control panel (Windows)
  - defining color scheme *Editors* 11-2
- Control string *AppDev* 18-2
  - assigning to menu item *Editors* 25-8
  - binding to function key *Cfg* 2-19
  - calling JPL *AppDev* 18-5, *AppDev* 19-22
  - case sensitivity for filename searches *Cfg* 2-25
  - executing from menu item *Editors* 25-11
  - executing function from *AppDev* 18-5
  - executing OS command from *AppDev* 18-8
  - getting information in debugger *AppDev* 39-18
  - list box widget *Editors* 20-7
  - property *GetStart-2Tier* 12-11, *GetStart-JN* 16-13
  - push button widget *Editors* 19-7
  - syntax *Editors* 19-8
  - target string in *AppDev* 18-6
- Controls
  - specifying in screen wizard *Editors* 4-21
- Conversion utilities
  - bin2c *AppDev* A-2
  - bin2hex *AppDev* A-4
  - cmap2bin *AppDev* A-8
  - f2asc *AppDev* A-11
  - jif2asc *AppDev* A-19
  - jpl2bin *AppDev* A-20
  - key2bin (key translation files to binary) *Cfg* 8-2
  - m2asc *AppDev* A-22
  - msg2bin (message files to binary) *AppDev* A-29
  - rb2asc *JetNet* A-4
  - s2asc (styles file to/from ASCII) *AppDev* A-40
  - var2bin (setup files to binary) *Cfg* 8-5
  - vid2bin (video file to binary) *Cfg* 8-7
- Convert Case property *Editors* 14-13
- Cookies
  - in web applications *Web* 8-21
  - retrieving values *Program* 5-561, *Web* 8-22, *Web* 11-3
  - saving Web application state *Web* 6-7
  - setting values *Program* 5-566
- COPY
  - transaction manager command
    - copying data for edit *Program* 8-35
- COPY\_FOR\_UPDATE
  - transaction manager command

- changing to update mode *Program* 8-37
- COPY\_FOR\_VIEW
  - transaction manager command
    - changing to view mode *Program* 8-39
- copying
  - file *Program* 5-162
- Correlation names
  - finding corresponding table view *Program* 5-52
  - for database tables *JDB SQL* 3-8
  - for self-joins
    - for self-joins *JDB SQL* 6-31
- COUNT function
  - in JDB *JDB SQL* 6-4
- Count Select property *AppDev* 36-6
  - specifying size of select set *Editors* 22-7
- Count Threshold property *AppDev* 36-6
- CREATE DATABASE statement
  - in JDB *JDB SQL* 6-9
- Create license
  - error messages *Install* G-14
- Create menu *AppDev* E-13
- CREATE TABLE statement
  - in JDB *JDB SQL* 6-11
- Create toolbar *AppDev* E-13
- Creating
  - ActiveX control *Editors* 18-2
  - application components (screens, reports, service components) *AppDev* E-4
  - COM components *COM/MTS* 3-1, *COM/MTS* 4-1
  - data entry widgets *Editors* 14-1
  - databases
    - in JDB *JDB SQL* 6-9
  - Enterprise JavaBeans *WebSphere* 5-1, *WebSphere* 6-1
  - framesets *Editors* 17-1
  - grid *Editors* 15-1
  - instantiating
    - EJBs *WebSphere* 7-3
  - libraries *AppDev* E-8
  - link *Editors* 22-13
  - menu *Editors* 25-3
  - push buttons *Editors* 19-1
  - report
    - with report wizard *Editors* 5-1
  - repository *AppDev* 11-3, *AppDev* E-20
  - screen *Editors* 6-2
    - with screen wizard *Editors* 4-1
  - service components *AppDev* 12-1, *Editors* 7-1, *Editors* 7-2
  - table view *Editors* 22-9
  - unique file name *Program* 5-532
  - widget
    - widget types *Editors* 2-19
  - widgets *AppDev* E-13
- Ctrl property
  - menu items *Editors* 25-8
- CUB keyword (video file) *Cfg* 7-26
- CUD keyword (video file) *Cfg* 7-26
- CUF keyword (video file) *Cfg* 7-26
- CUP keyword (video file) *Cfg* 7-27
- CURPOS keyword (video file) *Cfg* 7-48
- Currency format *AppDev* 45-19, *Editors* 10-21, *Editors* 14-15, *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
  - default entries in message file *AppDev* 45-21
  - fetching from database *AppDev* 29-16
  - stripping from string *Program* 5-488
  - writing to database
    - colon-plus processing *AppDev* 30-7
- Currency Symbol property *Editors* 10-21
- Cursor
  - appearance
    - keywords *Cfg* 7-27
    - restoring *Cfg* 7-28
    - saving *Cfg* 7-28
    - setting *Cfg* 7-27, *Cfg* 7-28
    - switching to/from system style *Cfg* 7-27
  - backtabbing to previous field *Program* 5-91
  - behavior in groups *Cfg* 2-26
  - changing delay state *AppDev* 47-9, *Program*

5-143  
 getting location in field *Program* 5-477  
 getting offset in field *Program* 5-147  
 movement  
   defining *Cfg* 2-15  
   in arrays *Editors* 8-21  
   setting video display *Cfg* 7-26  
 moving  
   to field *Program* 5-221, *Program* 5-414  
   to first field *Program* 5-226  
   to last field *Program* 5-271  
   to next field *Program* 5-494  
   to next line *Program* 5-391  
   to next occurrence of array *Program* 5-391  
 position  
   after check digit function *AppDev* 44-40  
   after field validation *AppDev* 44-19  
   after group validation *AppDev* 44-27  
   displaying *Cfg* 7-48, *AppDev* 26-7, *AppDev* 26-9  
   keywords *Cfg* 7-25  
   restoring *Cfg* 7-28  
   saving *Cfg* 7-28  
   setting absolute *Cfg* 7-27  
 setting absolute position (CUP) *Cfg* 7-27  
 specifying style of *Cfg* 7-23  
 toggling position display *Program* 5-102  
 turning off *Program* 5-100  
 turning on *Program* 5-101  
 Cursor (database) *AppDev* 28-3, *Program* 11-1  
 closing *AppDev* 8-4, *AppDev* 28-9, *Program* 11-15  
 declaring *AppDev* 28-4, *AppDev* 30-11, *Program* 11-30  
 executing statement *Program* 11-33  
 finding default connection *Program* 5-11  
 getting connection name *Program* 5-10  
 getting engine name *Program* 5-12  
 getting handle *Program* 5-56  
 redeclaring *AppDev* 28-8  
 specifying cursor for dbms command *Pro-*

*gram* 11-56  
 using bind values *AppDev* 28-6, *AppDev* 30-11  
 using colon expansion *AppDev* 28-5  
 using the default *AppDev* 28-3  
 verifying cursor behavior in ODBC *Program* 5-64  
 verifying status *Program* 5-62  
 Custom spacing *Editors* 9-17  
 Customer Drawn property *Editors* 21-12  
 CUU keyword (video file) *Cfg* 7-26

## D

DA\_CENTBREAK *Cfg* 2-28

### Data

caching  
   in web applications *Web* 6-2  
 calculated or derived  
   Value Source property *Rpts* 7-2  
 calculating *Rpts* 7-1  
   database properties *Rpts* 7-12  
   using call nodes *Rpts* 7-13  
 calculating in reports  
   totals *Rpts* 7-4  
 clearing  
   in the transaction manager *Program* 8-11  
 clearing field of *Editors* 14-15  
 collected in reports  
   Initialize In property *Rpts* 7-2  
   Update In property *Rpts* 7-2  
 collecting  
   in reports *Rpts* 7-8  
 computed break fields *Rpts* 7-20  
 copying  
   in reports *Rpts* 7-7  
   in the transaction manager *Program* 8-35  
 copying to buffer *Program* 5-215  
 deleting from database  
   in JDB *JDB SQL* 6-18  
 displaying

- displaying in arrays *AppDev* 14-6
- entering into database
  - in JDB *JDB SQL* 6-25
- fetching
  - from receive bundle *Rpts* 6-7
  - in reports *Rpts* 6-3
  - specifying size of select set *Editors* 22-7
  - with custom function *Rpts* 6-8
  - with named cursor *Rpts* 6-6
  - with SQL statement *Rpts* 6-5
  - with transaction manager *Rpts* 6-4
- forcing validation *Program* 5-205
- formatting in C *Program* 5-23
- grouped
  - controlling break field output *Rpts* 6-14
  - outputting headers and footers *Rpts* 6-14
- grouping data *JDB SQL* 6-21
- inserting
  - in the transaction manager *Program* 8-47
- matching specified pattern *JDB SQL* 6-33
- modifying
  - in JDB *JDB SQL* 6-52
  - in the transaction manager *AppDev* 36-7, *Program* 8-52
- protecting *Editors* 14-16
- receiving data bundles *Program* 2-54
- restoring saved data *Program* 5-449, *Program* 5-453
- scrolling through result set *Program* 11-22
- selecting
  - from multiple tables *JDB SQL* 6-27
  - in JDB *JDB SQL* 6-44
  - in the transaction manager *AppDev* 36-3, *Program* 8-57, *Program* 8-65
  - using a database driver *AppDev* 29-1
  - with warning message *AppDev* 36-6
- sending *Rpts* 7-20
- sending data bundles *Program* 2-64
- sorting
  - in reports *Rpts* 6-11
- specifying data order *JDB SQL* 6-42
- writing to a database *AppDev* 30-1
- Data bundles
  - appending data *Program* 5-82, *Program* 5-85
  - counting bundle items *Program* 5-210, *Program* 5-211
  - creating bundle *Program* 5-120
  - destroying *Program* 5-202
  - getting bundle name *Program* 5-212
  - optimizing bundle storage *Program* 5-84
  - reading an occurrence *Program* 5-209
  - receiving *Program* 5-443
  - verifying name *Program* 5-238
  - writing to bundle *Program* 5-471
- Data compression
  - specifying for *Jterm Cfg* 7-48
- Data entry
  - required *Editors* 14-14
  - widgets *Editors* 2-20, *Editors* 14-1
  - with input widget *Editors* 2-21
- Data filter *Editors* 14-2
- Data Formatting property *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
- date/time specification *Editors* 10-17
- formatting fetched data *AppDev* 29-16
- numeric specification *Editors* 10-20
- using in database updates *AppDev* 30-5
- Data series
  - graph widget *Editors* 13-23
- Data transport buffers *JetNet* 8-1
- Data type
  - in JDB *JDB SQL* 4-2, *JDB SQL* 6-15
  - specifying *Editors* 8-5
- Data Watch option *AppDev* 39-6
  - sorting variables
    - in debugger *AppDev* 39-10
- Database
  - accessing *AppDev* 1-3, *AppDev* 1-6, *AppDev* 27-2
  - in COM+ *COM/MTS* 2-3
  - adding data to *GetStart-JN* 9-6
  - closing connection

- in reports *Rpts* 6-3
- closing connections
  - in Editor *AppDev* E-13
- connecting directly to *GetStart-JN* 6-6
- connecting to *GetStart-2Tier* 3-3
  - in Editor *AppDev* E-12
  - in JDB *JDB SQL* 4-7
  - Web application *Web* 10-1, *Web* 10-2
- connecting via server initialization *GetStart-JN* 2-4
- creating
  - in ISQL *JDB SQL* A-2
  - in JDB *JDB SQL* 6-9
- database connections *Program* 11-1
- database drivers *Program* 11-1
- database engines *Program* 11-1
- designing *JDB SQL* 2-7
- designing schema *AppDev* 3-3
- fetching multiple rows in Web application
  - Web* 10-4
- importing database to a repository *AppDev* 11-5
- importing from *GetStart-2Tier* 3-5, *GetStart-JN* 6-7
- importing to a repository *AppDev* E-25, *WebSphere* 4-2
- opening connection
  - in reports *Rpts* 6-1
- optimistic locking
  - Web application *Web* 10-4
- reading information from *AppDev* 29-1
- recreating JDB database *JDB SQL* A-6
- relational *JDB SQL* 2-1
- saving changes to *GetStart-2Tier* 5-6, *GetStart-JN* 9-6
- transaction processing *AppDev* 28-10
  - Web application *Web* 10-3
- updating *GetStart-2Tier* 5-5, *GetStart-JN* 9-5
- using in Panther *AppDev* 27-1
- viewing data *GetStart-2Tier* 5-3, *GetStart-JN* 9-4
- writing information to *AppDev* 30-1
- Database columns
  - aliasing to widgets *AppDev* 29-4, *Program* 11-5
  - automatic mapping to widgets *AppDev* 29-3
  - choosing in report wizard *Editors* 5-14
  - defined *JDB SQL* 2-3
  - defining
    - in JDB *JDB SQL* 6-11
    - in JISQL *JDB SQL* 5-7
  - fetching binary values *Program* 5-2, *Program* 11-8
  - getting serial column value *Program* 12-17
  - importing to a repository *AppDev* 11-5
  - importing to repository *AppDev* E-25
  - in automated SQL generation *AppDev* 33-3, *AppDev* 33-10, *AppDev* 33-33, *AppDev* 33-37
  - mapping column names to Panther variables
    - Program* 11-17
  - mapping result set to widget/file *Program* 11-10
  - naming conventions *JDB SQL* 2-6
    - in JDB *JDB SQL* 4-2
  - selecting *JDB SQL* 6-44
  - setting number of *Cfg* 7-22
  - suppress repeating values *Program* 11-53
  - viewing imported value *AppDev* E-29
- Database Connect String property
  - for conversion server *JetNet* 3-26
  - for standard server *JetNet* 3-26
- Database connections *GetStart-2Tier* 2-14, *GetStart-JN* C-14
  - closing *AppDev* 8-3, *AppDev* 8-4, *Program* 11-13, *Program* 11-14
  - in Editor *AppDev* E-13
- cursor
  - getting the engine name *Program* 5-12
  - on the default connection *Program* 5-11
- declaring *AppDev* 8-3, *Program* 11-28
- disabling support *Program* 5-65

- finding value of option *Program 5-54*
- getting handle *Program 5-55*
- getting name from cursor *Program 5-10*
- opening
  - in Editor *AppDev E-12*
- setting current *AppDev 8-4, Program 11-54*
- setting default *AppDev 8-4, Program 11-19*
- setting in Web application *Web 10-1, Web 10-2*
- setting value of option *Program 5-66*
- syntax for each engine *DBDrv 1-1*
- to JDB database *JDB SQL 4-7*
- verifying connection status *Program 5-61*
- via server initialization *JetNet 8-18*
- Database cursors
  - getting handle *Program 5-56*
  - verifying status *Program 5-62*
- Database drivers *DBDrv 1-1, Install D-1*
  - accessing *AppDev 8-2*
  - commands *Program 11-1*
    - executing from C *Program 5-14, Program 5-16*
  - configuring
    - in Panther/WebSphere *WebSphere 2-12*
  - finding value of connection options *Program 5-54*
  - finding value of option *Program 5-57*
  - getting last command *Program 5-58*
  - initializing *AppDev 7-2, Program 5-13, Program 5-59*
    - in Windows *AppDev 7-7*
  - installing
    - on UNIX *Install 7-4, Install 8-7*
    - on Windows *Install 4-3*
  - keywords *Program 13-1*
  - listing of error messages *Program 12-11*
  - selecting data *AppDev 29-1*
  - setting current *AppDev 8-4*
  - setting default *AppDev 8-4*
  - setting options *Program 5-69*
  - verifying status *Program 5-63*
  - writing to a database *AppDev 30-1*
- Database engines *DBDrv 1-1*
  - adding support for an engine *AppDev 7-6*
  - disabling support *Program 5-65*
  - getting from specified cursor *Program 5-12*
  - initializing *AppDev 7-2, Program 5-13*
    - in Windows *AppDev 7-7*
  - setting current *AppDev 7-3, Program 11-58*
  - setting default *AppDev 7-3, Program 11-32*
  - using more than one *Program 11-58*
  - viewing error messages *AppDev 37-4*
- Database engines
  - finding value of option *Program 5-57*
  - setting value of option *Program 5-69*
- Database events
  - trace warning in debugger *AppDev 39-8*
- Database information
  - importing into Panther *AppDev 1-12*
- Database properties *GetStart-2Tier 6-5, GetStart-JN 10-5*
  - for SQL generator *AppDev 33-4*
  - table view *Editors 22-4*
  - widgets *Editors 2-31*
- Database tables
  - importing to repository *AppDev E-25*
  - Tables *JDB SQL 2-2*
- Database version
  - identify in executable *AppDev 42-5*
- Date
  - JPL @date operator *AppDev 19-51*
- Date/time format *Editors 10-17*
  - applying *Program 5-467*
  - applying to supplied value *Program 5-550*
  - customizing *AppDev 45-12*
  - defaults *AppDev 45-13, Editors 10-17*
  - defining custom format *Editors 10-18*
  - examples of custom formats *Editors 10-19*
  - fetching from database *AppDev 29-16*
  - for non-English applications *AppDev 45-17*
  - literal format for @date calculations *AppDev 45-19*



- system update *Editors* 10-18
- tokens *AppDev* 45-14
- variables for custom format *Editors* 10-19
- writing to database *AppDev* 30-9
  - colon-plus processing *AppDev* 30-6
- datetime (data type)
  - in JDB *JDB SQL* 6-16
- DB Interactions window *Editors* 2-9, *Get-Start-2Tier* 9-13, *GetStart-JN* 13-14
  - viewing transaction tree *AppDev* 31-10
- DBBL *JetNet* 1-3
- dbiinit.c
  - creating new *AppDev* 7-6
- DBMS commands
  - defined *Program* 11-1
  - executing from C *Program* 5-14, *Program* 5-16
  - finding out last command *Program* 5-58
  - summary *Program* 11-2
- DEBUG key (debug) *AppDev* 39-4
- dd2rec *Upgrade* 4-24
- dd5upg *Upgrade* 4-21
  - options *Upgrade* 4-21
- DDE
  - callback function *AppDev* 46-8
  - installing *Program* 5-138
- cold links
  - creating for Panther client *AppDev* 46-6, *Program* 5-126
  - updated from Panther server *AppDev* 46-4
- cold paste links
  - creating for Panther client *AppDev* 46-6, *Program* 5-133
- destroying links on Panther client *AppDev* 46-9
- destroying links to Panther client *Program* 5-130
- disabling Panther as client *Program* 5-131
- disabling Panther as server *AppDev* 46-5, *Program* 5-141
- enabling Panther as client *AppDev* 46-5, *Program* 5-132
- enabling Panther as server *AppDev* 46-2, *Program* 5-142
- executing command from Panther client *AppDev* 46-9, *Program* 5-137
- executing command on Panther server *AppDev* 46-10
- hot links
  - creating for Panther client *AppDev* 46-6, *Program* 5-127
  - specifying in initialization file *Cfg* 3-10, *AppDev* 46-7
  - updated from Panther server *AppDev* 46-4
- hot paste links
  - creating for Panther client *AppDev* 46-6, *Program* 5-134
- links
  - created on Panther server *AppDev* 46-2
  - creating for Panther client *AppDev* 46-6
  - specifying in initialization file *Cfg* 3-10, *AppDev* 46-7
  - updated from Panther server *AppDev* 46-3
- paste links
  - creating for Panther client *AppDev* 46-6, *Program* 5-133
- poking data from Panther client *AppDev* 46-10, *Program* 5-140
- poking data into Panther server *AppDev* 46-10
- requesting link data *AppDev* 46-8, *Program* 5-136
- updating Panther client data *AppDev* 46-8
- warm links
  - creating for Panther client *AppDev* 46-6, *Program* 5-128
  - updated from Panther server *AppDev* 46-4
- warm paste links
  - creating for Panther client *AppDev* 46-6, *Program* 5-135
- Debuggable server
  - configuring *JetNet* 8-18
  - in JetNet applications *AppDev* 39-2

- Debugger *AppDev* 38-2, *Install* C-3, *Rpts* 9-30
  - accessing *AppDev* 39-3
    - from Test mode *AppDev* 38-6, *AppDev* 38-7, *AppDev* 38-8
  - animation *AppDev* 39-8, *AppDev* 39-20
  - Application Data window *AppDev* 39-27
  - calling a function *AppDev* 39-9
  - calling a function on breakpoint *AppDev* 39-26
  - configuring *AppDev* 39-6
  - Data Watch window *AppDev* 39-26
  - description *GetStart-2Tier* 2-11, *GetStart-JN* C-11
  - enabling from screen editor *Editors* 2-11
  - enabling in screen editor *AppDev* 39-4
  - exiting *AppDev* 39-4
  - expert mode *AppDev* 39-8, *AppDev* 39-23
  - making executables for use with *COM/MTS* C-3
  - menu bar *AppDev* 39-8
  - module browsing *AppDev* 39-12
  - saving preferences *AppDev* 39-7
  - View menu *AppDev* 39-4
  - viewing control string assignments *AppDev* 39-18
  - viewing JPL *AppDev* 39-11
- Decimal places
  - setting JPL default *Cfg* 2-18
- Decimal Places property *Editors* 14-20
- Decimal symbol *Editors* 10-21
  - setting default *AppDev* 45-23
- DECIMAL\_PLACES *Cfg* 2-18
- DECLARE CONNECTION
  - dbms command
    - making database connection *AppDev* 8-3, *Program* 11-28
- DECLARE CURSOR
  - dbms command
    - creating database cursor *AppDev* 28-5, *AppDev* 30-11, *Program* 11-30
    - using bind values *AppDev* 28-6, *AppDev* 30-11
    - using colon expansion *AppDev* 28-5
- Decorations
  - on list box widget *Editors* 20-4
  - on screen borders *Editors* 6-21
- Default Blocking Timeout property *JetNet* 3-12
- Default push button
  - creating *Editors* 19-6
- Default/Cancel property *Editors* 19-6, *GetStart-2Tier* 8-10, *GetStart-JN* 12-10
- Defaults
  - setting for Motif *Cfg* 4-1
  - setting for Windows *Cfg* 3-1
- Defining
  - component interface *Editors* 7-4
  - methods for components *Editors* 7-4
  - properties for components *Editors* 7-6
- Delay cursor *AppDev* 47-9, *Program* 5-143
- Delayed write *Upgrade* B-6
  - flushing *Program* 2-26, *Program* 5-191, *Upgrade* B-6
- Delete Order property *Editors* 22-16
  - in automated SQL generation *AppDev* 33-38
- Delete Order push button *GetStart-2Tier* 12-10, *GetStart-JN* 16-12
- Delete Service property *AppDev* 33-5, *GetStart-JN* 11-7
- DELETE statement
  - constructing *JDB SQL* 3-6
  - in JDB *JDB SQL* 6-18
  - SQL generation from properties *AppDev* 33-38
- delete\_selected\_row procedure *GetStart-2Tier* 12-12, *GetStart-JN* 16-14
- delete1.jpl *GetStart-2Tier* 12-12, *GetStart-JN* 16-14
- Deleting
  - file *Program* 5-167
  - from a library *AppDev* E-6
  - from a repository *AppDev* E-23
  - translation table *Program* 5-587

- Demand functions
  - example *AppDev* 44-69
  - installing
    - field function *AppDev* 44-20
    - group function *AppDev* 44-27
    - screen function *AppDev* 44-13
- Deploying
  - COM components *COM/MTS* 3-18, *COM/MTS* 5-1
  - EJBs *WebSphere* 8-1
- Deployment
  - directory structure *AppDev* D-1
  - JetNet/BEA Tuxedo *JetNet* F-1
- Depth property
  - graph widget *Editors* 13-22
  - bar/line graph *Editors* 13-43
  - high/low chart *Editors* 13-51
  - pie chart *Editors* 13-33
  - XY plot *Editors* 13-47
- Dequeue *JetNet* 8-13
- DESC keyword
  - specifying data order *AppDev* 33-21, *JDB SQL* 6-42
- Deselecting
  - in selection group *Program* 5-145
- Design considerations
  - screens *Editors* 6-1
- Destroying Java Objects *AppDev* 21-19
- Detail node *Rpts* 6-3
- Detail output
  - keeping together on page *Rpts* 8-5
  - starting new page for *Rpts* 8-5
- Detail section
  - defining contents of *GetStart-2Tier* 4-5, *GetStart-JN* 7-5
  - deleting row from *GetStart-2Tier* 12-10
- Detail specification
  - adding another table view *Editors* 4-12
  - in screen wizard *Editors* 4-11
- Detail-only report *Editors* 5-19
- dev2bin
  - compiling device files *Rpts* A-2
- Development access server *GetStart-JN* 2-5
- Development Server ID property *JetNet* 3-27
- Device file *Rpts* C-1
  - compiling *Rpts* A-2
  - specifying in Print Setup dialog *Rpts* 9-7
  - specifying on invocation *Rpts* 9-12
- devserv *GetStart-JN* 1-17
  - setting the environment *GetStart-JN* 1-5
- Dialog box
  - creating *Editors* 6-5
  - displaying message *Program* 5-334
  - for file selection *Program* 5-248
  - selecting file *Program* 5-168
  - viewing file type *Program* 5-170
- Dialog property *AppDev* 13-2, *Editors* 6-5
- Diameter property
  - graph widget
    - pie chart *Editors* 13-34
- Digits only filter *Editors* 14-2
  - and check digit calculation *Editors* 8-29
  - and justification *Editors* 14-2
- Dim display attribute
  - setting *Editors* 11-7
- Direction property
  - graph widget
    - pie chart *Editors* 13-35
- Directions property
  - screen *Editors* 22-7
  - table view *Editors* 22-6
- Dispatcher executable *Web* 1-8
  - rereading configuration file *Web* A-2
  - setting location of *Web* 12-5
- Display
  - getting HWND handle *Program* 5-590
  - getting Widget ID *Program* 5-590
- Display area
  - size for portability *AppDev* 48-2

- Display attributes
  - as parameters *Cfg* 2-3
  - defaults
    - assigning *Cfg* 2-3
  - keywords *AppDev* 45-27
  - portability *AppDev* 48-2
  - setting *Editors* 11-6
    - for area *Program* 5-98
    - for zoom window borders *Cfg* 5-5
    - in messages *AppDev* 45-8
    - in status line *Cfg* 2-20, *AppDev* 45-9, *Program* 2-39
  - video attribute handling types *Cfg* 7-28
  - video attributes
    - ANSI terminals *Cfg* 7-34
    - combining *Cfg* 7-35
    - for grayed menu items *Cfg* 7-33
    - for message line *Cfg* 7-40
    - for onscreen or area *Cfg* 7-29
    - latch attributes *Cfg* 7-34
  - video file keywords *Cfg* 7-28
- Display properties
  - screens *Editors* 2-33
- Display Window property *Web* 8-14
- Distinct property *AppDev* 33-13
  - table view *Editors* 22-6
- Distribution
  - directories defined *AppDev* 2-1
- Division operation
  - in JDB *JDB SQL* 6-37
- DLLs
  - getting load error *Program* 5-480
  - included in Panther *Install* 5-7
  - installing function from *Program* 5-481
  - JPEG decoding *Install* H-3
  - loading *Program* 5-483
  - related messages *Install* G-4
  - updating template
    - for COM components *COM/MTS* C-4
- dm\_
  - @dm global variables *Program* 12-1
- do\_delete1 procedure *GetStart-2Tier* 12-12, *GetStart-JN* 16-14
- Docking
  - toolbars *Editors* 2-18
- Documentation
  - for Panther *Install* A-1
- Dominant widget *GetStart-2Tier* 7-8, *GetStart-JN* 11-12
  - defined *Editors* 9-1
- double (data type)
  - in JDB *JDB SQL* 6-16
- Double Click property *Editors* 8-12, *GetStart-2Tier* 10-2, *GetStart-JN* 14-2
  - in web applications *Web* 3-8
  - set by screen wizard *Editors* B-4, *Editors* B-7
- Double clicking
  - getting time between clicks *Program* 5-379
- Double-click event *GetStart-2Tier* 10-1, *GetStart-JN* 14-2
  - specifying *Editors* 8-11
- Drawing area *Cfg* 4-14
- Drawing function
  - attaching to widget *Program* 5-87
- Driver
  - defaults *Rpts* 9-11
  - html *Rpts* 9-12
  - keywords *Cfg* 7-48
  - pdf *Rpts* 9-12
  - postscript *Rpts* 9-12
  - rwmetafile *Rpts* 9-12
  - text *Rpts* 9-12
  - windows *Rpts* 9-12
  - xml *Rpts* 9-12
- DROP DATABASE statement
  - in JDB *JDB SQL* 6-19
- Drop shadows
  - on character-mode screens *Cfg* 5-2
  - setting emphasis *Cfg* 7-33
- DROP TABLE statement
  - in JDB *JDB SQL* 6-20

Drop-down Data property *Editors* 14-21  
 Drop-down Screen property *Editors* 14-22  
 Drop-down Size property *Editors* 14-22  
 Drop-down Source property *Editors* 14-21  
 Duplex (reports)  
   specifying in Page Setup dialog *Rpts* 9-5  
 Duplicate rows  
   eliminating *AppDev* 33-13  
 Dynalink  
   error messages *Install* G-7  
 Dynamic label widget *Editors* 2-20, *Editors* 13-3,  
   *GetStart-2Tier* 8-4, *GetStart-JN* 12-4  
   accessing with keyboard *Editors* 8-4  
   assigning double-click event to *Editors* 8-11  
   displaying image on *Editors* 21-10  
   event handler in Java *AppDev* 21-8  
   resizing *Editors* 13-4  
 Dynamic output widgets  
   defined for reports *Rpts* 2-6  
   property links *Rpts* 7-11

**E**

ED keyword (video file) *Cfg* 7-25  
 Edit Mask *Editors* 14-5  
   in web applications *Web* 3-8  
 Edit Mask property *GetStart-2Tier* 8-2, *GetStart-JN* 12-2  
 Edit menu *Editors* 2-6  
   in debugger *AppDev* 39-10  
 Edit menu items *Editors* 25-12  
   setting label *Editors* 25-13  
 Editor  
   description *GetStart-2Tier* 2-6, *GetStart-2Tier*  
     2-8, *GetStart-JN* C-6, *GetStart-JN* C-8  
   invoking  
     under UNIX/Motif *GetStart-2Tier* 1-4,  
       *GetStart-2Tier* 2-15  
     under Windows *GetStart-2Tier* 1-4, *GetStart-2Tier* 2-15  
   invoking for arrays *Program* 5-174

  invoking from command line *GetStart-JN*  
     5-19  
   invoking from JPL dialog box *AppDev* 19-17  
   setting *Cfg* 2-6  
   setting Java editor *Cfg* 2-8  
   starting *AppDev* E-2  
   using *AppDev* 1-15  
 Eight-bit character set *Cfg* 7-7  
 EL keyword *Cfg* 7-25  
 Elements  
   numbering *AppDev* 14-6  
 Email *AppDev* 49-1  
   creating mail object *AppDev* 49-4  
   creating new mail object *Program* 5-312  
   properties *AppDev* 49-1  
   sending *AppDev* 49-5, *Program* 5-311, *Program* 5-314  
     attachments *AppDev* 49-6, *Program* 5-309  
     field contents *Program* 5-315  
     text file *Program* 5-310  
     widget image *Program* 5-316  
 EMPHASIS *Cfg* 5-3  
 Emphasis style  
   defining *Cfg* 5-3  
 EMPHASIS\_KEEPPATT keyword (video file) *Cfg* 7-33  
 EMPHASIS\_SETATT keyword (video file) *Cfg* 7-33  
 Empty Format property *Editors* 10-22  
 Empty numeric field *Editors* 10-22  
 EMSGATT *Cfg* 2-21  
 Enable Cross-Service Calls option *JetNet* 3-23  
 End page node *Rpts* 8-7  
 End user  
   controlling report composition *Rpts* 9-19  
 ENGINE  
   dbms command  
     setting database engine *AppDev* 7-3  
     setting default database engine *Program* 11-32

- Enqueue *JetNet* 8-12
- enter\_screen procedure
  - on dstore client screen *GetStart-2Tier* 9-9, *GetStart-JN* 13-9
  - on dstlect client screen *GetStart-2Tier* 10-4, *GetStart-JN* 14-4
  - on orditm client screen *GetStart-2Tier* 12-9, *GetStart-JN* 16-11
- Enterprise Bank
  - design issues *JetNet* C-27
- Enterprise JavaBeans
  - building *WebSphere* 5-1, *WebSphere* 6-1
  - calling
    - from application clients *WebSphere* 7-1
  - calling methods *WebSphere* 7-5
    - types of parameters *WebSphere* 7-5
  - connecting to Tuxedo *Cfg* 2-12
  - creating *WebSphere* 5-3, *WebSphere* 7-3
    - from application library *WebSphere* A-2
  - defined *WebSphere* 1-1
  - defining methods *WebSphere* 5-4
  - defining properties *WebSphere* 5-9
  - destroying *WebSphere* 7-4
  - getting properties *WebSphere* 7-6
  - in Panther *WebSphere* 5-12
  - packaging *WebSphere* 8-1
  - receiving method's parameters *Program* 2-59
  - returning method's parameters *Program* 2-61
  - samples
    - basic client screen *WebSphere* 7-9
    - saving *WebSphere* 5-22
    - sending error to client *Program* 2-53
    - service components for *AppDev* 12-5
    - setting properties *WebSphere* 7-6
    - using *WebSphere* 1-1
- ENTEXT\_OPTION *Cfg* 2-28
- Entry Function property
  - grid widget *Editors* 15-15
  - screen *AppDev* 17-8
- Environment setup *GetStart-2Tier* 1-4, *GetStart-JN* 1-4
  - development clients *AppDev* 6-1
- Environment space *Install* H-3
- Environment variables
  - defining pixmap location *Editors* 25-16
- Equi-joins *JDB SQL* 6-27
- ER\_ACK\_KEY *Cfg* 2-22, *Cfg* 6-10
- ER\_KEYUSE *Cfg* 2-22
- ER\_SP\_WIND *Cfg* 2-23
- Erase command keywords (video file) *Cfg* 7-25
- Error acknowledgment key
  - and space bar *Cfg* 6-10
  - defining *Cfg* 2-22
- Error codes
  - from COM components *COM/MTS* 3-14
  - from EJBs *WebSphere* 5-18
- Error files *GetStart-JN* B-1
- Error function *AppDev* 44-37
  - example *AppDev* 44-81
  - return codes *AppDev* 44-38
  - standard arguments *AppDev* 44-38
- Error handler
  - for COM components *COM/MTS* 4-6
  - for EJBs *WebSphere* 7-6
  - installing *Program* 5-74, *Program* 5-406, *Program* 5-568
- Error handling *AppDev* 26-1
  - DLL loading *Program* 5-480
  - for COM objects *Program* 5-115, *Program* 5-116
  - for menu API *Program* 5-317
  - for properties API *Program* 5-426
  - for reports *Program* 5-454
  - installing database error handler *AppDev* 37-9
  - sending message to client *Program* 5-442
- Error hook function *AppDev* 26-9
- Error log
  - creating *Program* 5-305
- Error messages
  - acknowledgment *Cfg* 2-22, *AppDev* 45-11
  - database drivers *Program* 12-11

- disabling display of *AppDev* 26-2
- displaying *Program* 5-200, *Program* 5-201
- for user *Program* 5-155, *Program* 5-158
- for Web applications *Web* 2-5
- from COM applications *COM/MTS* E-1
- from service components *Program* 5-53
- in the transaction manager
  - transaction manager *Program* 10-1
- in Web applications *Program* 5-563
- initializing application *Program* 5-227
- JDB *JDB SQL* B-1
- JetNet *JetNet* 4-10
- logging for Web application server *Web* 12-6
- Error messages (database) *AppDev* 37-1, *AppDev* 37-2
  - calling function after dbms command *Program* 11-44
  - calling function before dbms command *Program* 11-39
  - customized processing *AppDev* 37-6
  - default processing *AppDev* 37-2
  - engine-specific codes *Program* 12-4
  - engine-specific messages *AppDev* 37-4, *Program* 12-6, *Program* 12-8
  - error handler *AppDev* 37-7
  - exit handler *AppDev* 37-7
  - generic database driver messages *AppDev* 37-4, *Program* 12-11, *Program* 12-14
    - listing *Program* 12-11
  - in transaction manager *Program* 5-503
  - installing error handler *AppDev* 37-6, *AppDev* 37-9, *Program* 11-41
  - transaction error handling *AppDev* 28-12
  - transaction hook functions *AppDev* 32-4
  - warning codes *AppDev* 37-4, *Program* 12-9, *Program* 12-10, *Program* 12-18
- error.log file *GetStart-JN* B-1
- Errors
  - setting error handler
    - for EJBs *WebSphere* 7-6
    - in COM components *COM/MTS* 4-6
    - transaction manager *Program* 5-499, *Program* 5-500, *Program* 5-504, *Program* 5-505, *Program* 5-510, *Program* 5-519, *Program* 5-520, *Program* 5-521
    - from database *Program* 5-503
- Escape sequence
  - for setting cursor style *Cfg* 7-23
- Event
  - post *JetNet* 8-5
  - posting to event broker
    - in JetNet/Tuxedo *Program* 2-47
  - subscribe *JetNet* 8-5
  - subscribing to
    - in Tuxedo *Program* 2-82
- Event broker *JetNet* 8-5
  - example *JetNet* 8-8
  - posting an event
    - in JetNet/Tuxedo *Program* 2-47
  - subscribing to event *Program* 2-82
  - unsubscribing from event
    - in Tuxedo *Program* 2-94
  - used in Enterprise Bank *JetNet* C-1
- Event function arguments
  - client authentication connection *AppDev* 44-28
  - client authentication post-connection *AppDev* 44-30
  - control *AppDev* 44-44
  - error *AppDev* 44-38
  - field *AppDev* 44-15
  - grid *AppDev* 44-21
  - group *AppDev* 44-26
  - initialization *AppDev* 44-42
  - key change *AppDev* 44-37
  - playback *AppDev* 44-43
  - record *AppDev* 44-43
  - reset *AppDev* 44-42
  - screen *AppDev* 44-11
  - tab control *AppDev* 44-24
  - timeout *AppDev* 44-33
  - timer *AppDev* 44-35

- transaction manager *AppDev* 44-50
- video processing *AppDev* 44-47
- Event function return codes
  - transaction manager *AppDev* 32-3
- Event function types
  - transaction manager *AppDev* 32-1
- Event functions
  - in the transaction manager *AppDev* 31-15
  - installing *Program* 5-149, *Program* 5-233
  - programming for *AppDev* 1-16
  - transaction manager *AppDev* 32-1
- Event handlers
  - for ActiveX controls *Editors* 18-11
  - for COM components *Program* 5-117
  - in Java *AppDev* 21-4
- Event processing
  - request broker *JetNet* 6-1
- Event scope
  - defined *JetNet* 6-3
  - jif\_changed handler *JetNet* 6-16
  - message handler *JetNet* 6-19
- Event stack
  - for transaction manager *AppDev* 35-7
  - in debugger *AppDev* 39-6
- Events
  - for tab cards *Editors* 16-9
  - in framesets *Editors* 17-7
  - in Panther applications *AppDev* 17-1
  - setting breakpoints on *AppDev* 39-21
  - user-initiated *AppDev* 17-22
  - web applications *Web* 5-1
- evnt\_ord\_clt.jsp *GetStart-2Tier* 12-9, *GetStart-2Tier* 12-10, *GetStart-JN* 16-11, *GetStart-JN* 16-12
- EW keyword (video file) *Cfg* 7-25
- Exception code property
  - set in exception handler *JetNet* 6-11
- Exception event *JetNet* 6-11
  - built-in handlers *JetNet* 6-15
  - handler contract *JetNet* 6-13
  - handler installed for transaction
    - Program* 2-103
  - handler scope *JetNet* 6-12
  - handlers *JetNet* 6-11
  - severity *JetNet* 6-13
  - TP\_UNLOAD\_FAILED *JetNet* 6-30
  - types of *JetNet* D-1
- Exception severity property
  - set in exception handler *JetNet* 6-12
- Exception types *JetNet* D-1
- Executables
  - building *AppDev* 42-1
  - creating *Install* C-1
  - for development access server *GetStart-JN* 1-5, *GetStart-JN* 1-17
  - for standard server *GetStart-JN* 1-5, *GetStart-JN* 1-17
  - including your C functions *AppDev* 20-1
  - making client
    - in Windows *COM/MTS* C-1
  - making web application server
    - in Windows *COM/MTS* C-1
  - renaming *AppDev* 42-6
  - web application broker *Install* C-2
- EXECUTE
  - dbms command
    - executing statement *AppDev* 28-5, *Program* 11-33
  - generating SQL
    - changing bind values *Program* 5-27
- Executing
  - SQL statements *Program* 11-46, *Program* 11-47, *Program* 11-48
- EXISTS keyword
  - in JDB *JDB SQL* 6-48, *JDB SQL* 6-55
- Exit
  - debugger *AppDev* 39-4
- Exit Function property
  - grid widget *Editors* 15-15



Exit screen *Program* 3-2  
 Exiting Panther *AppDev* 38-8  
 Expert mode *AppDev* 39-8, *AppDev* 39-19  
 EXPHIDE\_OPTION *Cfg* 2-29  
 Export to HTML property *Web* 9-6  
 Expose Function property  
   for tab cards *Editors* 16-9  
 Expression property *GetStart-2Tier* 12-4, *Get-Start-JN* 16-5  
 Expressions  
   in JDB *JDB SQL* 6-38  
 Extended colors  
   aliasing colors *AppDev* 45-26  
   defined *Editors* 11-3  
   specifying in Color palette *Editors* 11-5  
 External Help Tag property  
   menu items *Editors* 25-11  
   widgets and screens *Editors* 12-14  
 External menu *AppDev* 15-6, *Editors* 25-6, *Program* 5-332  
 External Network Address property  
   for workstation connections *JetNet* 3-18  
 External screen *Editors* 14-22

**F**

F\_EXTOPT *Cfg* 2-26  
 F\_EXTREC *Cfg* 2-26  
 F\_EXTSEP *Cfg* 2-26  
 f2asc  
   generating ASCII output *AppDev* A-11  
 f5upg *Upgrade* 4-12  
   invoking *Upgrade* 4-13  
   options *Upgrade* 4-13  
 FCASE *Cfg* 2-25  
 FERA key (clear field)  
   clock update and *Editors* 10-18  
 FETCH  
   transaction manager command  
     fetching next row of data *Program* 8-41

Fetch  
   setting number of rows *Program* 5-73  
 Fetch data properties *AppDev* 33-10  
 Fetch Directions property *AppDev* 36-6  
 Field  
   alphanumeric filter *Editors* 14-5  
   characteristics  
     internationalization *AppDev* 48-3  
   decimal symbol *AppDev* 45-23  
   digits only filter *Editors* 14-2  
   displaying status of *AppDev* 26-8  
   edit mask *Editors* 14-5  
   getting current field number *AppDev* 14-3  
   getting cursor offset *Program* 5-147  
   getting screen's amount of *AppDev* 13-8  
   numeric filter *Editors* 14-4  
   regular expression *Editors* 14-7, *Editors* 14-8  
   select on entry *Editors* 14-15  
   setting current *Program* 5-221  
   using Java methods *Program* 7-3  
   with yes/no entry *Editors* 14-3  
 Field data  
   clearing  
     in transaction manager *Program* 5-495  
   clearing all fields *AppDev* 23-8, *Program* 5-108  
   clearing from array *AppDev* 23-8, *Program* 5-109  
   copying array data *Program* 5-119  
   copying to buffer *Program* 5-215  
   deleting occurrence *Program* 5-150  
   forcing validation *Program* 5-205  
   formatting empty numeric field *Program* 5-9  
   getting length *AppDev* 19-51, *AppDev* 23-6, *Program* 5-148  
   of word wrapped text *Program* 5-582  
   reading *AppDev* 23-5, *Program* 5-198  
   double precision float *Program* 5-124  
   from LDBs *Program* 5-78  
   integer *Program* 5-235  
   long integer *Program* 5-303

- unformatted data *Program 5-488*
- word wrapped text *Program 5-584*
- testing
  - all fields for changes *AppDev 23-15, Program 5-548*
  - for no value *AppDev 23-6, Program 5-239*
  - for yes value *AppDev 23-6, Program 5-240*
  - if null *AppDev 23-6, Program 5-392*
- validating
  - with check digit function *Program 5-105*
- writing *AppDev 23-7, Program 5-441*
  - double precision floating point *Program 5-153*
  - formatted data *Program 5-80*
  - integer *Program 5-245*
  - long integer *Program 5-307*
  - word wrapped text *Program 5-585*
- Field exit
  - setting validation condition *Cfg 2-17*
- Field function *AppDev 44-14*
  - example of automatic function *AppDev 44-65*
  - example of demand function *AppDev 44-69*
  - passing non-standard arguments into *AppDev 44-67*
  - standard arguments *AppDev 44-15*
- Field number
  - assignment *AppDev 14-4, Editors 8-2*
  - relative referencing in tab properties *Editors 8-15*
  - specifying in tab properties *Editors 8-15*
- Field validation *AppDev 23-14*
  - causes *AppDev 44-15*
  - using table lookup *Editors 12-13*
- File
  - checking for *Program 5-164*
  - copying *Program 5-162*
  - deleting *Program 5-167*
  - export JDB database to text files *JDB SQL A-7*
  - getting path name *Program 5-161*
  - import to JDB database from text files *JDB SQL A-7*
  - moving *Program 5-165*
  - required in deployment *AppDev 43-4*
  - selecting in dialog box *Program 5-168, Program 5-170, Program 5-248*
- File I/O
  - closing file stream *Program 5-173*
  - error handling *Program 5-175*
  - getting file stream handle *Program 5-183*
  - invoking editor for editing array *Program 5-174*
  - opening file *Program 5-184*
  - reading characters from file *Program 5-180*
  - reading line from file *Program 5-181*
  - rewinding file stream *Program 5-190*
  - setting error code *Program 5-177*
  - writing array to file *Program 5-172*
  - writing character to file *Program 5-187*
  - writing file contents to array *Program 5-178*
  - writing line of text to file *Program 5-188*
- File locking *AppDev A-16*
- File protection *Install 6-2*
- File selection
  - in dialog box *Program 5-248*
- File types
  - selecting in dialog box *Program 5-170*
- Filename
  - case sensitivity *Cfg 2-25*
  - creating unique *Program 5-532*
  - extensions
    - setting defaults *Cfg 2-25*
    - for key translation file *Cfg 6-3*
    - setting default behavior *Cfg 2-25*
- Fill at Init *Editors 14-23*
- Fill at Popup *Editors 14-23*
- Fill Character property *Editors 10-22*
- FINISH
  - transaction manager command
    - closing current transaction *Program 8-43*

- Firewall *Web* 2-12
  - specifying workstation listener *JetNet* 3-18
- FLEXlm *Install* E-1
  - configuration errors *Install* G-19
  - error messages *Install* G-15
  - utilities *Install* E-6
- float (data type)
  - in JDB *JDB SQL* 6-15
- Floating footer property *Rpts* 8-2
- Floating point
  - in calculations *Editors* 8-26
  - reading from field *Program* 5-124
  - writing to field *Program* 5-153
- Flush buffered output *Program* 2-26, *Program* 5-191
- FML buffers *JetNet* 5-17, *JetNet* 8-2
  - converted from JAMFLEX *JetNet* 5-18
- FML file *JetNet* 5-17
- Focus
  - menu items *Editors* 25-10
  - push button widgets *Editors* 19-6
- Focus properties
  - screens *Editors* 2-33
  - widgets *Editors* 2-31
- Focus Protection property *Editors* 8-8
  - grid widgets *Editors* 15-15
  - in styles editor *Editors* 23-10
- Font
  - aliasing *Editors* 10-9, *Rpts* 8-11
  - aliasing names for portability *Editors* 10-7
  - application default *Editors* 10-8
  - browser base font *Web* 1-4
  - graph widget *Editors* 13-8
  - grid widgets *Editors* 15-5
  - GUI-specific names *Editors* 10-11
  - italic *Editors* 10-10
  - Panther-specific *Editors* 10-9
  - point size *Editors* 10-9
  - precedence of report settings *Rpts* 8-11
  - screen *Editors* 10-8
  - setting bold attribute *Editors* 10-10
  - setting display default *AppDev* 45-36
  - setting for reports *Rpts* 8-10
  - setting point size *Editors* 10-9
  - specifying *Editors* 10-7
  - Web application *Web* 3-16
    - aliasing *Web* 3-17
    - name *Web* 3-16
    - point size *Web* 3-17
- Font Name property *Editors* 10-9
- Font properties
  - screens *Editors* 2-32
  - widgets *Editors* 2-30
- Footer (reports)
  - positioning on page *Rpts* 8-2
  - specifying for page *Rpts* 8-1
- For loop *Program* 2-27
  - skip to next iteration *Program* 2-42
- Force Valid property *AppDev* 33-12
- FORCE\_CLOSE
  - transaction manager command
    - discarding changes *Program* 8-45
- Foreground color *Editors* 11-5
  - resource in Motif *Cfg* 4-5
- Foreign keys
  - defined *JDB SQL* 2-6
  - defining using JISQL *JDB SQL* 5-11
  - enforcing with validation link *AppDev* 33-48
- Form
  - closing *Program* 5-246
  - opening *AppDev* 13-3, *Program* 5-250
- Form Attributes property *Web* 8-3
- FORM element
  - attributes set by Prolifics properties *Web* 8-2
- Form list *Program* 5-196
- Form Name property *Editors* 17-5
- Form stack *AppDev* 24-2
- FORMAT
  - dbms command
    - formatting CATQUERY values *Program* 11-35
    - formatting result set *AppDev* 29-19

- Format selection
    - in screen wizard *Editors* 4-3
  - Format Type property *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
    - date/time fields *Editors* 10-17
    - numeric fields *Editors* 10-20
  - Format/Display properties
    - numeric format *Editors* 10-20
    - text format *Editors* 10-3, *Editors* 10-17
    - widgets *Editors* 2-31
  - Formatting text
    - for a database *AppDev* 30-12
    - from a database *AppDev* 29-15
  - formlib
    - with -g option *AppDev* 10-5
  - formMenus *Cfg* 4-8
  - Frames
    - creating *Editors* 21-3
    - getting handle *Program* 5-383
    - in web application *Web* 8-18
  - FRAMESET element *Web* 8-18
  - Frameset properties
    - runtime *QckRef* 1-105
  - Framesets *Editors* 17-1
    - closing *Editors* 17-9
    - creating *Editors* 17-1
    - entry processing *Editors* 17-7
    - opening *Editors* 17-6
    - properties in web applications *Editors* 17-14
    - runtime properties *Editors* 17-12
    - sample application *Editors* 17-16
    - using in web applications *Editors* 17-14
  - Frequency property *Editors* 10-18
  - FROM clause
    - changing SQL generation *Program* 5-32
  - Frozen Columns property *Editors* 15-7
  - Function keys
    - associating with control string *AppDev* 18-2
    - hex value *Cfg* 6-11
    - setting default behavior *Cfg* 2-19, *AppDev* 18-2
  - Function property *GetStart-2Tier* 9-13, *GetStart-2Tier* 12-10, *GetStart-JN* 13-14, *GetStart-JN* 16-12
    - transaction hook *Editors* 22-4
  - Functions
    - aggregate functions *JDB SQL* 6-4
    - calling from call nodes
      - in reports *Rpts* 5-7
    - calling from JPL *Program* 2-8
    - column click behavior
      - specifying *Editors* 15-13
    - installing from DLLs *Program* 5-481
- G**
- GA\_CURATT *Cfg* 2-26
  - GA\_CURMASK *Cfg* 2-27
  - GA\_SELATT *Cfg* 2-27
  - GA\_SELMASK *Cfg* 2-27
  - Generate unique ID *GetStart-2Tier* 9-11, *GetStart-JN* 13-12, *GetStart-JN* 13-16
  - Geometry properties
    - screens *Editors* 2-32
    - widgets *Editors* 2-30
  - GET method
    - submitting a form to another program *Web* 8-10
    - using URL to send data *Web* 4-2
  - GIF files *Editors* 21-10
  - Global JPL variable
    - declaring *AppDev* 19-26, *Program* 2-29
    - Web application usage *Web* 7-1
      - application globals *Web* 7-1
      - context globals *Web* 7-2
      - setting for user *Web* 7-2
      - transient globals *Web* 7-3
  - Global variables
    - changing to transient status *Program* 5-569, *Program* 5-570
    - creating
      - on Web *Program* 5-564

- database drivers *Program* 12-1
- getting value *Program* 5-422
- getting values *Program* 5-231
- updating values *Program* 5-242
- GRAPH keyword *Upgrade* B-2
  - in video file *Cfg* 7-41
- Graph properties *Editors* 2-31
- Graph widget *Editors* 2-20, *Editors* 13-4
  - bar/line graph *Editors* 13-39
  - converting between chart types *Editors* 13-30
  - creating *Editors* 13-1, *Editors* 13-5
    - with report wizard *Editors* 5-20, *Editors* 5-26
  - data series *Editors* 13-23
  - displaying in 3D *Editors* 13-22
  - error messages *Install* G-7
  - fonts *Editors* 13-8
  - high/low chart *Editors* 13-48
  - including in report *Editors* 5-7
  - label text *Editors* 13-13
  - legend *Editors* 13-10, *Editors* 13-30
  - minimizing chart re-draw *Editors* 13-25
  - orientation *Editors* 13-14
  - pie chart *Editors* 13-31
  - subtitle *Editors* 13-10
  - text size *Editors* 13-9
  - title *Editors* 13-9
  - X and Y axes *Editors* 13-15
- Graphics characters
  - supporting *Cfg* 7-41
- Graphics file
  - setting web server location *Web* 8-17
  - supported for toolbar items *Editors* 25-15
  - supported formats *Editors* 21-10
  - supported Web browser formats *Web* 8-15
  - Web application usage *Web* 8-15
- Windows
  - returning object ID *Program* 5-112
- Graphics sets
  - defining *Cfg* 7-41
- Graphics widgets *Editors* 2-24
- Graphs
  - in reports *Rpts* 7-9
- Grayed menu items
  - setting emphasis *Cfg* 7-33
- Graying of inactive screens *Cfg* 5-2
- Grid (screen)
  - align widget on *Editors* 9-15
  - and wallpaper pixmaps *Editors* 6-18
  - as unit of measurement *Editors* 9-7
  - defining size of *Editors* 6-10
  - snapping to *Editors* 9-15
- Grid Align command *Editors* 9-15
- Grid column
  - autonumbering *Editors* 15-7
  - defining properties of *Editors* 15-5
  - frozen *Editors* 15-7
  - moving/resizing at runtime *Editors* 15-13
  - positioning *Editors* 15-6
  - titles *Editors* 15-6
  - using as row title *Editors* 15-9
- Grid Column Click *AppDev* 17-17
- Grid Column property *Editors* 15-6
- Grid display layout
  - specifying in screen wizard *Editors* 4-16
- Grid function *AppDev* 44-20
  - return codes *AppDev* 44-23
  - standard arguments *AppDev* 44-21
- Grid Height property
  - screens *Editors* 6-10
- Grid members
  - and focus protection *Editors* 8-9
  - moving/resizing *Editors* 15-13
  - removing *Editors* 15-3
  - selecting *Editors* 15-3
- Grid property *Editors* 15-2
- Grid row
  - autonumbering *Editors* 15-9
  - defining properties of *Editors* 15-8
  - height
    - changing *Editors* 15-11

- margin
  - adjusting *Editors* 15-11
  - specifying number of *Editors* 15-8
  - striping *Editors* 15-10
  - titles *Editors* 15-9
- Grid Style property
  - graph widget tick marks *Editors* 13-21
- Grid widget *Editors* 2-21, *Editors* 15-1
  - adding member to *GetStart-2Tier* 12-3, *GetStart-JN* 16-3
  - and focus protection *Editors* 8-8
  - assigning titles to columns *Editors* 15-6
  - column click behavior *Editors* 15-11
    - function *Editors* 15-12
    - sorting *Editors* 15-11
  - copying from one grid to another *GetStart-JN* 16-10
  - defining number of occurrences *Editors* 15-8
  - delete row in *GetStart-2Tier* 12-12, *GetStart-JN* 16-14
  - deleting *Editors* 15-4
  - font specification *Editors* 10-8
  - hiding *Editors* 10-4
  - horizontal lines *Editors* 15-10
  - member types *Editors* 15-4
  - row margin *Editors* 15-11
  - scrolling *Editors* 15-8
  - selecting *GetStart-2Tier* 10-2, *GetStart-JN* 14-2
  - selecting members in *Editors* 15-3
  - setting scrolling behavior *Editors* 15-9
  - sizing to content *Editors* 15-5
  - specifying number of rows *Editors* 15-8
  - vertical lines *Editors* 15-8
  - viewing offscreen columns in *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
- Grid widgets
  - event handler in Java *AppDev* 21-8
  - using Java methods *Program* 7-5
  - Web application *Web* 3-10
    - deleting data *Web* 3-11
    - expanding *Web* 3-11
    - inserting data *Web* 3-11
    - scrolling in browser *Web* 3-13
    - selecting row *Web* 3-12
- Grid Width property
  - screens *Editors* 6-10
- Group
  - autotab *Editors* 8-16
  - changing members of *Editors* 20-16
  - check box widget *Editors* 2-23
  - controlling cursor key *Program* 5-265
  - converting to field number *AppDev* 14-9, *Program* 5-223
  - creating *Editors* 20-11
  - cursor attributes *Cfg* 2-26
  - display attributes *Cfg* 2-26
  - forcing validation *Program* 5-224
  - getting information in debugger *AppDev* 39-17
  - getting name from field reference *AppDev* 14-9, *Program* 5-203
  - getting screen's amount of *AppDev* 13-8
  - identifying members of *AppDev* 23-3, *Editors* 20-11
  - list box widget *Editors* 2-23
  - naming *Editors* 20-14
  - occurrence attributes *Cfg* 2-27
  - properties *Editors* 20-13
  - radio button widget *Editors* 2-23
  - selecting *Editors* 20-12
  - selection widgets *Editors* 2-22, *Editors* 20-10
  - specifying allowable number of selections *Editors* 20-14
  - specifying initial selection *Editors* 20-15
  - specifying selection/deselection characters *Cfg* 7-47
  - toggle button widget *Editors* 2-23
  - using Java methods *Program* 7-6
  - validation *AppDev* 44-26
- GROUP BY clause
  - changing SQL generation *Program* 5-35

- in automated SQL generation *AppDev* 33-17
  - in JDB *JDB SQL* 6-21
  - Group By property *AppDev* 33-17
  - Group function *AppDev* 44-25
    - example of automatic function *AppDev* 44-71
    - return codes *AppDev* 44-27
    - standard arguments *AppDev* 44-26
  - Group member
    - changing *Editors* 20-16
    - identifying *Editors* 20-11
  - Group widgets
    - confirming membership *GetStart-2Tier* 12-8, *GetStart-JN* 16-9
    - event handler in Java *AppDev* 21-9
  - Grouping data
    - in reports *Rpts* 6-9
  - Groups
    - controlling page breaks in *Rpts* 8-5
    - defined
      - in reports *Rpts* 6-12
    - specifying in report wizard *Editors* 5-16
    - starting new page for *Rpts* 8-6
  - GRTYPE keyword (video file) *Cfg* 7-41
    - keywords *Cfg* 7-41
  - GUI-specific colors
    - using *Editors* 11-3, *Editors* 11-5
  - GUI-specific line/box styles *Editors* 21-3
- H**
- Hard reset
    - RESET keyword *Cfg* 7-25
  - HAVING clause
    - changing SQL generation *Program* 5-37
    - in automated SQL generation *AppDev* 33-20
    - in JDB *JDB SQL* 6-23
  - Having property
    - in automated SQL generation *AppDev* 33-20
  - HEAD element *Web* 8-1
    - adding data for *Web* 8-2
  - Head Markup property *Web* 8-2
  - Header (reports)
    - specifying for page *Rpts* 8-1
  - Header file
    - creating *AppDev* A-34
    - sample *AppDev* A-35
  - Headings
    - creating in HTML document *Web* 8-20
  - Height property
    - defined *Editors* 9-6
    - widgets *Editors* 9-6
  - Help
    - multilevel *Editors* 12-8
  - Help function *AppDev* 44-32
    - example *AppDev* 44-73
    - return codes *AppDev* 44-32
  - Help mode
    - invoking *Program* 5-472
  - Help properties
    - menu items *Editors* 25-10
    - screens *Editors* 2-33
    - widgets *Editors* 2-31
  - Help screen *Editors* 12-5
    - attaching *Editors* 12-8
    - displaying *Editors* 12-8, *Program* 5-225
    - external *Editors* 12-14
    - populating *Editors* 12-6
    - positioning *Editors* 12-9
    - to enter data *Editors* 12-6
  - Hexadecimal strings
    - writing to database *AppDev* 30-7, *AppDev* 30-10
  - Hidden property *Editors* 10-4, *GetStart-JN* 13-16
    - and version columns *AppDev* 33-42
    - for tab cards *Editors* 16-8
    - for tab decks *Editors* 16-7
    - in web applications *Web* 3-7
  - Hidden widgets
    - generating HTML tag *Web* 9-6
    - saving Web application state *Web* 6-5

- Hide Function property
  - for tab cards *Editors* 16-9
- Hiding
  - horizontal lines in grid widgets *Editors* 15-10
  - row titles in grid widgets *Editors* 10-5
  - text *Editors* 10-5
  - vertical lines in grid widgets *Editors* 15-8
  - widgets *Editors* 10-4
- High/low chart *Editors* 13-48
  - creating *Editors* 13-49
  - data series style *Editors* 13-26
  - legend *Editors* 13-10, *Editors* 13-11, *Editors* 13-30
- HINSTANCE handle *Program* 5-384, *Program* 5-385
- HOME
  - moving cursor to *Program* 5-226
- Hook functions
  - installing *Program* 5-149, *Program* 5-233
  - invoking *AppDev* 19-21, *GetStart-2Tier* 9-13, *GetStart-JN* 13-14, *GetStart-JN* 13-17
  - on dstord client screen *GetStart-JN* 13-16
  - on dstord service container *GetStart-2Tier* 9-11, *GetStart-JN* 13-11
  - on orditm client screen *GetStart-2Tier* 12-10, *GetStart-JN* 16-12
- Horiz Rotation property
  - graph widget *Editors* 13-22
  - bar/line graph *Editors* 13-42
  - high/low chart *Editors* 13-51
  - XY plot *Editors* 13-47
- Horizontal Anchor property *Web* 3-14
  - in web applications *Web* 3-14
  - widgets *Editors* 9-19
- Horizontal array
  - setting tab order in *Editors* 8-16
- Horizontal lines
  - creating in HTML document *Web* 8-20
  - in grid widgets *Editors* 15-10
- Horizontal property *Editors* 10-14
- Horizontal Scroll Bar property
  - grid widgets *Editors* 15-6
  - shifting fields *Editors* 10-16
- Horizontal Shrinking property
  - screen *Editors* 6-14, *Editors* 21-8
- Host name
  - for JetNet/Tuxedo applications *Cfg* 2-11
- Hot Pixmap property
  - menu items *Editors* 25-14
  - toolbar items
    - toolbar property *Editors* 25-9
- HR element *Web* 8-20
- HTML
  - BODY element *Web* 8-1
  - components *Web* 8-1
  - FORM attributes *Web* 8-2
  - FORM element *Web* 8-1
  - format *Web* 1-3
  - FRAMESET element *Web* 8-18
  - generating from screen *Web* 8-1
  - generating reports in *Rpts* 9-12
  - generating tags for widgets *Web* 9-6
  - getting cookie values *Program* 5-561
  - HEAD element *Web* 8-1
  - headings *Web* 8-20
  - horizontal lines *Web* 8-20
  - HR element *Web* 8-20
  - hyperlinks *Web* 8-11
  - modifying with Panther properties *Web* 8-2
  - setting cookies *Program* 5-566
  - tags *Web* 1-3
  - title bar *Web* 8-14
- HTML Template property *Web* 8-4
- HTML templates
  - for Web applications *Web* 8-4
- HTTP
  - variables *Web* 11-1
- HTTP server *GetStart-2Tier* 2-1, *Web* 1-3, *Web* 1-5
  - on Windows *Install* 3-2



- HTTPS protocol *Web* 4-6
- HWND handle
  - getting
    - for drawing area *Program* 5-152
    - for screen-resident widget *Program* 5-571
  - getting for display *Program* 5-590
- Hyperlinks
  - creating *Web* 8-11
  - image map *Web* 8-16
  - in list box widget *Web* 8-12
  - target window *Web* 8-14
  - using in reports *Web* 8-12
- I**
- I/O processing *Upgrade* B-1
- Icon
  - file types supported for *Editors* 6-9
  - for application *AppDev* 42-8
  - identification *Editors* 6-9
- Icon property *Editors* 6-9
- Identity properties
  - screens *Editors* 2-32
  - widgets *Editors* 2-30
- If logic *Program* 2-31, *Program* 2-87
- Image map
  - including server-side map *Web* 8-16
- Import *GetStart-JN* 6-7
  - database objects *AppDev* E-25, *GetStart-2Tier* 3-5
  - of database objects to a repository *AppDev* 11-5, *WebSphere* 4-2
  - re-importing database objects *AppDev* E-28
- In Data Space property
  - graph widget legend *Editors* 13-12
- In Delete Where property *AppDev* 33-41
  - in automated SQL generation *AppDev* 33-41
- IN keyword
  - in automated SQL generation *AppDev* 33-16
  - in JDB *JDB SQL* 6-48, *JDB SQL* 6-55
- In Update Where property *AppDev* 33-41
  - in automated SQL generation *AppDev* 33-41
- IN\_ENDCHAR *Cfg* 2-17
- IN\_HARROW *Cfg* 2-15
- IN\_RESET *Cfg* 2-17
- IN\_VALID *Cfg* 2-17
- IN\_VARROW *Cfg* 2-16
- IN\_WRAP *Cfg* 2-18
- Inactive Pixmap property
  - menu items *Editors* 25-14
  - push button widget *Editors* 19-4
  - toolbar items *Editors* 25-9
  - widget *Editors* 21-11
- Inches
  - as unit of measurement *Editors* 9-7
- Included JPL modules *AppDev* 19-5, *Program* 2-33
- Including report files
  - in reports *Rpts* 5-10
- IND\_OPTIONS *Cfg* 2-24
- IND\_PLACEMENT *Cfg* 2-25
- Indent property
  - for layout area *Rpts* 8-14
- Independent queue *JetNet* 8-15
  - creating in JIF *Editors* 24-15
- Indicator property
  - menu items *Editors* 25-8
- Indicator symbol
  - keywords (video file) *Cfg* 7-46
  - setting initial state on menu item *Editors* 25-8
  - submenu in character-mode *Cfg* 7-48
- Infinite loops
  - breaking out in debugger *AppDev* 39-4
- Informix
  - error messages *Install* G-4
- Inh (Inherit) button *AppDev* E-29, *Editors* 2-29
- Inherit From property *AppDev* E-28, *GetStart-2Tier* 8-11, *GetStart-JN* 12-12
  - layout area *Rpts* 2-5
  - removing specification *AppDev* 11-10, *AppDev* E-30

- report node *Rpts* 3-10
- widgets in reports *Rpts* 2-9
- Inherit menu option *AppDev* 11-10
- Inheritance *AppDev* 1-14, *AppDev* 11-9
  - controlling *AppDev* E-29
  - displayed in properties window *Editors* 2-29
  - ensuring *AppDev* 11-2
  - finding child objects *AppDev* E-32
  - finding parent objects *AppDev* E-31
  - maintained when copying *Editors* 9-11
  - preventing *AppDev* E-30
  - preventing propagation *AppDev* 11-9
  - propagating to screen (binherit) *AppDev* A-6
  - restoring *AppDev* E-31
  - source
    - finding *AppDev* 11-10
    - tooggling for a specific property *Editors* 2-29
    - turning on/off *AppDev* E-29
- INIT keyword (video file) *Cfg* 7-23
  - undoing effects of *Cfg* 7-24
- Init Routine property *JetNet* 3-26
- Init Selections property
  - radio buttons *Editors* 20-8
  - selection group *Editors* 20-15
- Initial state
  - getting *Program* 5-382
- Initial Text property
  - embedding punctuation *Editors* 14-4
  - list box widget *Editors* 20-6
  - widgets *Editors* 10-2
- Initial Value property
  - scales *Editors* 14-20
- Initialization
  - application *Program* 5-228
    - error message *Program* 5-227
    - options in Motif *Cfg* 4-7
    - options in Windows *Cfg* 3-4
  - database engines *AppDev* 7-2
  - key translation file *Program* 5-262
  - menu system *Program* 5-338
  - of database driver *Program* 5-13
    - of database drivers *Program* 5-59
    - server *JetNet* 8-17
    - video translation table *Program* 5-558
- Initialization file *GetStart-2Tier* 1-1
  - for Web *GetStart-2Tier* 2-3, *GetStart-JN* 5-3, *WebSphere* 2-14, *Web* 12-1, *Web* B-2
- Initialization function *AppDev* 44-41
  - example *AppDev* 44-82
  - return codes *AppDev* 44-42
  - standard argument *AppDev* 44-42
- Initialization property *Editors* 14-22
- Input
  - keyboard *Upgrade* B-2
  - simulating from keyboard *Program* 3-5, *Program* 5-552
  - testing for keyboard activity *Program* 5-260
- Input devices
  - for data *Editors* 14-19
- Input filters *Editors* 14-2
- Input properties
  - widgets *Editors* 2-31
- Input Protection property *Editors* 8-10, *Editors* 14-16
  - in styles editor *Editors* 23-11
  - in web applications *Web* 3-8
- Ins/Del Buttons property *Web* 3-12
- Insert operation
  - generating argument list
    - for service call *Program* 5-536
- Insert Order property *Editors* 22-16
- Insert procedure *GetStart-JN* 13-13
- Insert Service property *AppDev* 33-5, *GetStart-JN* 11-7
- INSERT statement
  - constructing *JDB SQL* 3-5
  - in *JDB JDB SQL* 6-25
  - NULL values and *JDB SQL* 6-35
  - SQL generation from properties *AppDev* 33-32, *AppDev* 33-44
- Insert toggle function *AppDev* 44-39
  - example *AppDev* 44-81

- return codes *AppDev* 44-39
- Inserting data
  - generating argument list *Program* 5-536
- INSOFF keyword (video file) *Cfg* 7-28
- INSON keyword (video file) *Cfg* 7-28
- Installation
  - EJBs in WebSphere *WebSphere* 6-2
  - error messages *Install* G-1
  - on UNIX *Install* 7-2
  - on Windows *Install* 4-1
  - verifying *Install* 8-13
- Installation directory
  - specifying in configuration file *JetNet* 3-14
- Installed function return codes
  - check digit *AppDev* 44-40
  - client authentication connection *AppDev* 44-28
  - control *AppDev* 44-45
  - error *AppDev* 44-38
  - grid *AppDev* 44-23
  - group *AppDev* 44-27
  - help *AppDev* 44-32
  - initialization *AppDev* 44-42
  - insert toggle *AppDev* 44-39
  - key change *AppDev* 44-37
  - playback *AppDev* 44-43
  - record *AppDev* 44-43
  - reset *AppDev* 44-42
  - screen *AppDev* 44-12
  - status line *AppDev* 44-46
  - timeout *AppDev* 44-33
  - timer *AppDev* 44-35
  - transaction manager *AppDev* 44-50
  - video processing *AppDev* 44-49
- Installed function types
  - check digit *AppDev* 44-40
  - client authentication connection *AppDev* 44-28
  - client authentication post-connection *AppDev* 44-30
  - control *AppDev* 44-44
  - database driver errors *AppDev* 44-49
  - error *AppDev* 44-37
  - field *AppDev* 44-14
  - grid *AppDev* 44-20
  - group *AppDev* 44-25
  - help *AppDev* 44-32
  - initialization *AppDev* 44-41
  - insert toggle *AppDev* 44-39
  - key change *AppDev* 44-36
  - playback *AppDev* 44-43
  - prototyped *AppDev* 44-8
  - record *AppDev* 44-43
  - reset *AppDev* 44-41
  - screen *AppDev* 44-10
  - status line *AppDev* 44-45
  - tab control *AppDev* 44-24
  - timeout *AppDev* 44-33
  - timer *AppDev* 44-34
  - transaction manager *AppDev* 44-50
  - video processing *AppDev* 44-47
- Installed functions
  - automatic *AppDev* 44-2
  - installing *AppDev* 44-4
  - standard arguments *AppDev* 44-3
- Installing
  - translation table *Program* 5-587
- Instance
  - getting handle *Program* 5-384
  - getting previous handle *Program* 5-385
- Instance node
  - in reports *Rpts* 5-8
  - using to create a title and trailer pages *Rpts* 8-8
- Instantiating Java Objects *AppDev* 21-17
- Insufficient space
  - widgets *Editors* 9-17
- int (data type)
  - in JDB *JDB SQL* 6-15
- Integer value
  - reading from field *Program* 5-235
  - writing to field *Program* 5-245

- Interactive SQL
    - in JDB
      - ISQL *JDB SQL A-2*
      - IISQL *JDB SQL 5-1*
  - Interface
    - accessing for COM components *Program 5-114*
    - three-tier
      - between client and server *AppDev 1-7*
  - Internationalization
    - 8-bit characters *Cfg 7-41, AppDev 45-45*
    - alternate message files *AppDev 45-24*
    - currency formats *AppDev 45-19*
    - decimal symbol *AppDev 45-23*
    - keystroke filters *AppDev 48-3*
    - library functions *AppDev 45-45*
    - of application screens *AppDev 45-46*
    - range checks *AppDev 48-4*
    - supporting *Cfg 7-42*
    - yes/no values *AppDev 45-24*
  - Internet
    - about *Web 1-1*
  - Interrupt handler *AppDev 44-41, Program 5-104*
  - INVALID\_CONTEXT exception *Program 2-93*
  - IP Address *Cfg 2-11*
  - IP Address property *JetNet 3-15*
  - IPC Key property *JetNet 3-8*
  - IPC resources *JetNet 2-15*
    - controlling through JetMan configuration *JetNet 4-9*
    - message queues *JetNet 2-12*
    - semaphores *JetNet 2-14*
    - shared memory *JetNet 2-15*
  - Is Help property
    - menu item *Editors 25-9*
  - ISAPI *GetStart-2Tier 2-1*
    - setting type of requester executable *Web B-1*
  - ISQL
    - clearing the input buffer *JDB SQL A-3*
    - command terminator *JDB SQL A-3*
    - committing transactions *JDB SQL A-4*
    - connecting to a database *JDB SQL A-4*
    - editing statement in *JDB SQL A-4*
    - executing a command file *JDB SQL A-4*
    - exiting *JDB SQL A-4*
    - starting *JDB SQL A-2*
    - using interactive SQL utility
      - in JDB *JDB SQL A-2*
  - Italic property *Editors 10-10*
  - Item Selection key (ITSEL) *Editors 12-10*
  - ITSEL key (item selection) *Editors 12-10*
- J**
- JAM
  - upgrading from JAM 5 to JAM 7 *Upgrade 4-1*
  - upgrading to Panther *Upgrade 1-1, Upgrade 2-1, Upgrade 4-1*
- JAMFLEX buffers
  - converting to FML *JetNet 5-18*
- Java
  - event handler interfaces *AppDev 21-4*
  - implementing event handlers *AppDev 21-1*
  - initializing
    - in Panther *Cfg 2-29*
  - invoking Java applets *Web 8-22*
  - library function interfaces *Program 6-1*
  - programming
    - for COM components *COM/MTS 3-16*
    - for EJBs *WebSphere 5-20*
  - sample *AppDev 21-23*
  - samples *AppDev C-1*
  - setting class factory name *Cfg 2-8*
  - setting environment variables *AppDev 21-2*
  - setting Java editor *Cfg 2-8*
  - setting Java library location *Cfg 2-8*
  - setting JVM options *Cfg 2-8*
  - specifying compilation command *Cfg 2-8*
  - using Java servlets *Web D-1*- Java applets
  - invoking *Web 8-22*

- Java event handlers
  - for push buttons
    - calling methods *WebSphere* 7-8
  - for screens
    - creating EJBs *WebSphere* 7-7
- Java interfaces
  - calling methods
    - for fields *Program* 7-3
    - for grids *Program* 7-5
    - for groups *Program* 7-6
    - for screens *Program* 7-7
    - for the application *Program* 7-2
    - for widgets *Program* 7-8
- Java servlets
  - configuring *WebSphere* 2-16, *Web* D-1
- Java Tag property *AppDev* 21-3
- JAVA\_USE *Cfg* 2-29
- JavaScript
  - accessing HTML names *Web* 9-6
  - events *Web* 9-2
  - generating from editor properties *Web* 9-7
  - including function in web application *Web* 9-4
  - referencing screen widgets *Web* 9-6
- JavaScript property *Web* 9-4
- JDB
  - connecting to database
    - using ISQL *JDB SQL* A-2
    - using JISQL *JDB SQL* 5-3
  - creating databases *JDB SQL* 4-1, *JDB SQL* 6-9, *JDB SQL* A-2
    - using JISQL *JDB SQL* 5-4
  - deleting databases *JDB SQL* 6-19
  - describing *JDB SQL* 1-1
  - describing tables using JISQL *JDB SQL* 5-16
  - disconnecting from database using JISQL *JDB SQL* 5-3
  - dropping databases using JISQL *JDB SQL* 5-17
  - error messages *JDB SQL* B-1
  - executing transactions *JDB SQL* 3-9
  - in Enterprise Bank *JetNet* C-1
  - isql (interactive SQL) utility *JDB SQL* A-2
  - journal files *JDB SQL* 4-6
  - keywords *JDB SQL* C-1
  - naming conventions *JDB SQL* 4-1
  - SQL commands *JDB SQL* 6-1
  - SQL syntax summary *JDB SQL* 6-58
  - system tables *JDB SQL* 4-3
  - unsupported features *JDB SQL* 1-3
  - using JISQL *JDB SQL* 5-1
  - utilities *JDB SQL* A-1
- jdbroll *JDB SQL* A-5
- JetNet *GetStart-JN* 1-6, *GetStart-JN* 1-19
  - connecting to
    - via the request broker *AppDev* 9-3
  - connecting to middleware *AppDev* E-9
  - creating service components *AppDev* 12-1
  - features *GetStart-2Tier* 2-16, *GetStart-JN* C-16
  - setting up application *JetNet* E-1
  - using with transaction manager *AppDev* 35-12
- JetNet applications
  - executing JPL commands *Program* 5-533
  - getting service alias *Program* 5-541
  - inserting data *Program* 5-536
  - selecting data *Program* 5-537, *Program* 5-538
  - setting configuration file *Cfg* 2-10
- JetNet configuration file
  - application properties *JetNet* 3-7
  - ASCII/binary conversion *JetNet* A-4
  - changing selection *JetNet* 3-7
  - creating with JetNet manager *JetNet* 3-2
  - creating with rbconfig *JetNet* A-6
  - defined *JetNet* 1-3
  - editing *JetNet* 3-5
  - machine properties *JetNet* 3-12
  - naming application *GetStart-JN* 1-8, *GetStart-JN* 1-21
  - server properties *JetNet* 3-19
  - specifying location *GetStart-JN* 1-9, *GetStart-JN* 1-22, *JetNet* 3-14

- JetNet manager *JetNet* 3-1
  - activate server *GetStart-JN* 2-6
  - connecting as client *JetNet* 4-4
  - disconnecting from application *JetNet* 4-5
  - setting default configuration file *JetNet* 3-2
- JetNet utilities
  - rbboot *JetNet* A-5
  - rbconfig *JetNet* A-6
  - rblisten *JetNet* A-7
  - rbshutdown *JetNet* A-9
- JetNet/TUXEDO
  - service components *Editors* 7-15
- jetrbl
  - modifying *JetNet* 7-2
- JIF *GetStart-JN* 4-1, *GetStart-JN* 8-1
  - advertising services in *Program* 2-2
  - checking for changes *Program* 2-34
  - client access *Editors* 24-1
  - defining service availability *AppDev* 1-8
  - description *GetStart-2Tier* 2-11, *GetStart-JN* C-11
  - invoking service with *JetNet* 5-12
  - message enqueueing *Editors* 24-15
  - reliable queue identification *JetNet* 8-14
  - rereading *Program* 2-35
  - server access *Editors* 24-1
  - specifying for deployed application *Cfg* 2-12, *Cfg* 2-13
- JIF editor
  - generating JPL code *Editors* 24-21
  - invoking *GetStart-JN* 8-2
  - menu bar description *Editors* 24-4
  - source management *Editors* 24-4
  - starting *Editors* 24-2
  - workspace with list of services *Editors* 24-3
- Jif\_changed event *JetNet* 6-15
  - built-in handlers *JetNet* 6-17
  - handler contract *JetNet* 6-17
- jif2asc *AppDev* A-19
- JISQL *JDB SQL* 5-1
  - command terminator *JDB SQL* 5-20
  - connecting to a database *JDB SQL* 5-3
  - creating databases *JDB SQL* 5-4
  - creating tables *JDB SQL* 5-5
  - defining columns *JDB SQL* 5-7
  - disconnecting from a database *JDB SQL* 5-3
  - displaying database description *JDB SQL* 5-16
  - dropping databases *JDB SQL* 5-17
  - dropping tables *JDB SQL* 5-17
  - editing SQL scripts *JDB SQL* 5-18
  - executing operating system commands *JDB SQL* 5-4
  - executing SQL scripts *JDB SQL* 5-22
  - exiting *JDB SQL* 5-2
  - log file *JDB SQL* 5-22, *JDB SQL* 5-25
  - macro commands *JDB SQL* 5-21
  - output options *JDB SQL* 5-22
  - query results *JDB SQL* 5-23
  - running interactive SQL *JDB SQL* 5-18
  - script format *JDB SQL* 5-20
  - starting *JDB SQL* 5-1
  - terminating execution *JDB SQL* 5-23
- jmain.c *AppDev* 42-6
- Join *AppDev* 33-23
  - database tables *JDB SQL* 3-7, *JDB SQL* 6-27
  - implementing
    - full outer join *AppDev* 33-30
    - inner join *AppDev* 33-29
    - left outer join *AppDev* 33-30
    - right outer join *AppDev* 33-31
  - table views *Editors* 22-16
  - using correlation names *JDB SQL* 3-8
- Join Type property *AppDev* 33-28
- Journal file
  - in JDB *JDB SQL* 4-6
- JPEG files *Editors* 21-10
- JPL *GetStart-2Tier* 9-1, *GetStart-2Tier* 9-19, *GetStart-JN* 13-1, *GetStart-JN* 13-23
  - choosing an editor *Cfg* 2-6, *AppDev* 19-17
  - command overview *Program* 1-1
  - comments *AppDev* 19-5

- constants *AppDev* 19-31
- control flow *AppDev* 19-4
- delete procedures *GetStart-2Tier* 12-12, *GetStart-JN* 16-14
- displaying messages *Program* 2-37
- enter\_screen procedure
  - on dstord client screen *GetStart-2Tier* 9-9, *GetStart-JN* 13-9
  - on dstslect client screen *GetStart-2Tier* 10-4, *GetStart-JN* 14-4
  - on orditm client screen *GetStart-2Tier* 12-9, *GetStart-JN* 16-11
- executing commands
  - in JetNet applications *Program* 5-533
- generating
  - for COM components *COM/MTS* 3-7
  - for EJBs *WebSphere* 5-8
- global variables
  - adding to save list *Program* 5-564
  - changing to transient status *Program* 5-569, *Program* 5-570
- hook functions *GetStart-2Tier* 9-11, *GetStart-JN* 13-11
- insert procedure *GetStart-JN* 13-13
- loading as public module *Program* 5-253
- making memory-resident *Program* 5-196
- memory-resident *AppDev* 42-9
- naming conventions *AppDev* E-19
- null statement *AppDev* 19-5
- optimizing performance *AppDev* 19-56
- programming
  - for COM components *COM/MTS* 3-13
  - for EJBs *WebSphere* 5-16
- receiving data bundles *Program* 2-54
- send\_data procedure *GetStart-2Tier* 9-4, *GetStart-2Tier* 12-18, *GetStart-JN* 13-4, *GetStart-JN* 16-20
- sending data bundles *Program* 2-64
- setting breakpoint in *AppDev* 39-15
- setting startup procedures
  - for a web application *Cfg* 2-8
- tm\_events\_clt hook function *GetStart-2Tier* 12-9, *GetStart-2Tier* 12-10, *GetStart-JN* 13-17, *GetStart-JN* 16-11, *GetStart-JN* 16-12
- tm\_events\_svr hook function *GetStart-2Tier* 9-11, *GetStart-JN* 13-12
- unloading module *Program* 5-254
- validation *AppDev* 19-8
- validation function *GetStart-2Tier* 12-14, *GetStart-JN* 16-16
- viewing with debugger *AppDev* 39-11, *AppDev* 39-26
- JPL calls
  - from C function *Program* 5-252
  - from control string *AppDev* 18-5, *AppDev* 19-22
  - from screen *AppDev* 19-21
  - from screen and report *AppDev* 19-14
  - from widget *AppDev* 19-21
  - inline calls *AppDev* 19-23
  - return value *AppDev* 19-20
  - search order *AppDev* 19-24
  - to JPL and installed functions *Program* 2-8
- JPL command
  - advertise *Program* 2-2
  - break *Program* 2-4
  - broadcast *Program* 2-5
  - call *Program* 2-8
  - client\_exit *Program* 2-10
  - client\_init *Program* 2-11
  - dbms *Program* 2-16
  - dequeue *Program* 2-18
  - enqueue *Program* 2-22
  - flush *Program* 2-26
  - for *Program* 2-27
  - global *Program* 2-29
  - if *Program* 2-31
  - include *Program* 2-33
  - jif\_check *Program* 2-34
  - jif\_read *Program* 2-35
  - log *Program* 2-36

- msg *Program 2-37*
- next *Program 2-42*
- notify *Program 2-43*
- parms *Program 2-45*
- post *Program 2-47*
- proc *Program 2-49*
- public *Program 2-51*
- raise\_exception *Program 2-53*
- receive *Program 2-54*
- receive\_args *Program 2-59*
- return *Program 2-60*
- return\_args *Program 2-61*
- runreport *Program 2-62*
- send *Program 2-64*
- service\_call *Program 2-66*
- service\_cancel *Program 2-75*
- service\_forward *Program 2-77*
- service\_return *Program 2-79*
- subscribe *Program 2-82*
- switch *Program 2-87*
- unadvertise *Program 2-89*
- unload *Program 2-91*
- unload\_data *Program 2-92*
- unsubscribe *Program 2-94*
- vars *Program 2-95*
- wait *Program 2-97*
- while *Program 2-100*
- xa\_begin *Program 2-102*
- xa\_commit *Program 2-106*
- xa\_end *Program 2-108*
- xa\_rollback *Program 2-110*
- JPL commands
  - arguments *AppDev 19-55, Program 2-1*
  - command/function execution *Program 1-2*
  - component processing (COM, EJB) *Program 1-6*
  - control flow *Program 1-1*
  - data/message transfer *Program 1-3*
  - database drivers *Program 1-4*
  - JetNet/Tuxedo processing *Program 1-4*
    - connection *Program 1-4*
    - data/message transfer *Program 1-4*
    - event broker processing *Program 1-5*
    - service request processing *Program 1-5*
    - two-phase commit transaction processing *Program 1-6*
  - module access and availability *Program 1-3*
  - procedure structure *Program 1-2*
  - text display *Program 1-3*
  - variable declaration *Program 1-2*
- JPL edit window *GetStart-2Tier 9-19, GetStart-JN 13-22*
- JPL expression
  - bitwise *AppDev 19-54*
  - numeric *AppDev 19-53*
  - numeric format *AppDev 19-54*
  - operand conversion *AppDev 19-49*
  - specifying substring in variable *AppDev 19-50*
  - string *AppDev 19-53*
- JPL module *AppDev 19-1*
  - accessing with debugger *AppDev 39-11, AppDev 39-12*
  - compiling *AppDev A-20*
  - continuation character *AppDev 19-4*
  - generated by wizards *Editors 3-5*
  - include module *AppDev 19-5, Program 2-33*
  - library modules *AppDev 19-11, AppDev 19-16*
  - line length *AppDev 19-4*
  - loading as public *AppDev 17-6, Program 2-51*
  - memory-resident *AppDev 19-13*
  - named procedure *AppDev 19-2*
  - screen module *AppDev 19-9*
  - storing in library *AppDev 19-11*
  - types *AppDev 19-8*
  - unloading public *Program 2-91*
  - unnamed procedure *AppDev 19-2*
  - widget validation *AppDev 19-8*
- JPL operators *AppDev 19-47*
  - @date *AppDev 19-51*
  - @length *AppDev 19-51*
  - @sum *AppDev 19-52*
  - bitwise *AppDev 19-52*



concatenation *AppDev* 19-50  
 precedence *AppDev* 19-49  
 substring specifier *AppDev* 19-50  
 JPL procedure *AppDev* 19-1  
   attaching to screen and report *AppDev* 19-14  
   attaching to widget *AppDev* 19-16  
   declaring parameters *AppDev* 19-2  
   declaring return type *AppDev* 19-4, *Program*  
     2-49  
   execution *AppDev* 19-4  
   named *AppDev* 19-2  
   returning from *AppDev* 19-20, *Program* 2-60  
   unnamed *AppDev* 19-2  
 JPL Procedures property *GetStart-2Tier* 9-3, *Get-*  
*Start-JN* 13-3  
   in reports *Rpts* 5-7  
 JPL text dialog box  
   compiling and saving *AppDev* 19-18  
   invoking local editor *AppDev* 19-17  
 JPL variable *AppDev* 19-24  
   allocating size *Program* 2-95  
   declaring *AppDev* 19-25, *Program* 2-95  
     as array *Program* 2-95  
     global *AppDev* 19-26, *Program* 2-29  
   expanding to literal value *AppDev* 19-27  
   globals in Web application *Web* 6-6  
 HTTP variables  
   defined *Web* 11-1  
   initializing *Program* 2-95  
   name conventions *Program* 2-95  
   resolving name ambiguity *AppDev* 19-38  
   scope and lifetime *AppDev* 19-27  
   substring specifier *AppDev* 19-50  
   watching through debugger *AppDev* 39-9, *Ap-*  
*pDev* 39-26  
 jpl2bin *AppDev* A-20  
 jserver executable *Web* 1-7  
   setting location of *Web* 12-5  
   setting number of *Web* 12-5  
 Jterm  
   enabling data compression *Cfg* 7-48, *AppDev*

42-12

Justification  
   with digits only filter *Editors* 14-3  
 Justification property *Editors* 10-5, *Rpts* 8-13  
   box widgets *Editors* 21-4  
 JVM  
   setting options *Cfg* 2-8

**K**

K\_ENTRY flag  
   set on field entry *AppDev* 44-16  
   set on grid entry *AppDev* 44-21  
   set on screen entry *AppDev* 44-11  
   set on tab card entry *AppDev* 44-25  
 K\_EXIT flag  
   set on field exit *AppDev* 44-17  
   set on grid exit *AppDev* 44-21  
   set on screen exit *AppDev* 44-11  
   set on tab card exit *AppDev* 44-25  
 K\_EXPOSE flag *GetStart-2Tier* 10-4, *Get-*  
*Start-JN* 14-4  
   set on screen exposure *AppDev* 44-11  
 K\_KEYS bitmask *AppDev* 44-12, *AppDev* 44-17,  
*AppDev* 44-22  
 K\_SVAL *GetStart-2Tier* 12-15, *GetStart-JN*  
 16-17  
 K\_WEBPOST  
   set on screen posting *Web* 5-7  
 KBD\_DELAY keyword *Upgrade* B-3, *Upgrade*  
 B-4  
   in video file *Cfg* 7-24  
 Keep Image Size property *Web* 8-16  
 Keep on Page property  
   detail print node *Rpts* 8-5  
   group *Rpts* 8-5  
   group header/footer print node *Rpts* 8-7  
 Key  
   disabling *Program* 5-264  
   get logical value *Program* 5-218  
   getting integer value *Program* 5-258

- getting label *Program* 5-263
  - logical *Cfg* 6-5
    - defined *Cfg* 6-1
    - displaying in message *Editors* 12-4
    - hexadecimal values *Cfg* 6-7
  - mnemonics *Cfg* 6-7
  - pushing onto input queue *Program* 5-552
  - setting cursor key options *Program* 5-264
  - Key change function *AppDev* 44-36
    - example *AppDev* 44-79
    - return codes *AppDev* 44-37
    - standard argument *AppDev* 44-37
  - Key columns
    - defining using JISQL *JDB SQL* 5-8
    - foreign key
      - defined *JDB SQL* 2-6
    - primary key
      - defined *JDB SQL* 2-4
  - Key label
    - displaying in messages *AppDev* 45-10, *Program* 2-39
    - portability *AppDev* 48-3
  - Key translation
    - initializing table *Program* 5-262
    - internationalization *AppDev* 45-46
    - portability *AppDev* 48-3
    - variable *Cfg* 2-8
  - Key translation file *Cfg* 6-1
    - accessing *Cfg* 6-16
    - comments *Cfg* 6-5
    - converting to binary (key2bin) *Cfg* 8-2
    - creating and modifying *Cfg* 6-15
    - defining as SMKEY variable *Cfg* 6-15
    - identifying for initialization *Cfg* 2-8
    - making memory-resident *AppDev* 42-11
    - modifying *Cfg* 6-15
    - multiple *Cfg* 6-3
    - naming convention *Cfg* 6-3
    - purpose *Cfg* 6-2
    - syntax *Cfg* 6-5
    - using alternate files *Cfg* 6-16
  - key2bin *Cfg* 8-2
    - error messages *Cfg* 8-2
  - Keyboard
    - assigning timing interval *Cfg* 7-24
    - logical
      - mnemonics and hex values *Cfg* 6-7
      - more than one type *Cfg* 6-16
      - opening for input *Program* 5-230
      - portability *AppDev* 48-3
      - processing *Upgrade* B-1
  - Keyboard interface *Editors* A-1
  - Keys
    - defining *Cfg* 6-15
  - Keystroke Filter property *Editors* 14-2, *GetStart-2Tier* 8-2, *GetStart-JN* 12-2
    - alphabetic *Editors* 14-4
    - digits only *Editors* 14-2
    - edit mask *Editors* 14-5
    - in styles editor *Editors* 23-11
    - numeric *Editors* 14-4
    - regular expression *Editors* 14-7
    - translation support *AppDev* 48-3
    - using in database updates *AppDev* 30-5
    - using to format database values *AppDev* 30-9, *AppDev* 30-10
    - yes/no entries *Editors* 14-3
  - Keywords
    - database drivers *Program* 13-1
    - in JDB *JDB SQL* 2-7, *JDB SQL* C-1
  - Korn shell *GetStart-JN* C-10
- L**
- Label Location property
    - graph widget
      - pie chart *Editors* 13-37
    - graph widget axes *Editors* 13-17
  - Label property *GetStart-2Tier* 8-4, *GetStart-JN* 12-4
    - box widgets *Editors* 21-4
    - check box widget *Editors* 20-2

- for tab cards *Editors* 16-7
- graph widget *Editors* 13-5
- graph widget axes *Editors* 13-17
- menu items *Editors* 25-7
- push button widget *Editors* 19-2
- static label widgets *Editors* 13-2
- toggle button widget *Editors* 20-10
- Label Source property
  - graph widget
    - pie chart *Editors* 13-36
    - graph widget tick marks *Editors* 13-20
- Label text display
  - setup variables *Cfg* 5-1
- Label widgets
  - creating *Editors* 13-1
- Landscape page orientation
  - setting in report file *Rpts* 8-2
  - specifying on invocation *Rpts* 9-15
- Latch attributes
  - defined *Cfg* 7-28
  - setting *Cfg* 7-34
- LATCHATT keyword (video file) *Cfg* 7-34
- Launching command *Program* 5-272
- Layout area
  - collapsing *Rpts* 2-3
  - creating *Rpts* 2-3
  - defined *Rpts* 2-1
  - editing properties *Rpts* 2-5
  - expanding *Rpts* 2-3
  - indenting output *Rpts* 8-14
  - moving *Rpts* 2-4
  - naming *Rpts* 2-3
  - populating with widgets *Rpts* 2-6
  - white space *Rpts* 2-8
- Layout selection
  - in screen wizard *Editors* 4-15
- Layout specifications *GetStart-2Tier* 4-7, *GetStart-JN* 7-7
- LD\_LIBRARY\_PATH *GetStart-JN* 1-3
- LDB *AppDev* 25-7
  - activating *Program* 5-294
  - and widget names *Editors* 8-4
  - changing to read/write *Program* 5-294
  - changing to read-only *Program* 5-294
  - copying data from *Program* 5-273, *Program* 5-275
  - enabling write-through *Program* 5-125
  - forcing read from screen *Program* 5-306
  - getting
    - contents *Program* 5-281
    - current state *Program* 5-293
    - handle *Program* 5-283
  - getting active LDB handle *Program* 5-277
  - getting data from *Program* 5-273
  - getting name *Program* 5-287
  - getting previously activated *Program* 5-279
  - getting previously inactivated *Program* 5-280
  - getting recently inactivated *Program* 5-278
  - getting to another instance *Program* 5-288
  - identifying files for initialization *Cfg* 2-9
  - identifying libraries for initialization *Cfg* 2-9
  - inactivating *Program* 5-294
  - initializing *Program* 5-284
  - loading *Program* 5-285, *Program* 5-286
    - multiple instances of *AppDev* 25-9
  - popping *AppDev* 25-11, *Program* 5-289
  - pushing *Program* 5-290
  - reading data from all *Program* 5-78
  - screen functions and *Cfg* 2-28
  - setting state *Program* 5-294
  - testing if loaded *Program* 5-285
  - unloading *Program* 5-296
  - writing to entry *Program* 5-291
- Legend property
  - graph widget *Editors* 13-10
  - graph widget data series *Editors* 13-30
  - identifying the data series *Editors* 13-30
  - placement by location *Editors* 13-12
  - placement by position *Editors* 13-13
- Length property *GetStart-2Tier* 12-3, *GetStart-JN* 16-4
  - defined for widgets *Editors* 9-6

- defined in database *AppDev* 11-7
- in web applications *Web* 3-7
- shifting fields *Editors* 10-16
- Letters only *Editors* 14-4
- Libraries
  - getting load error *Program* 5-480
  - installing function from DLLs *Program* 5-481
  - loading DLLs *Program* 5-483
  - opening on startup *GetStart-2Tier* 1-1
  - setting search path *Program* 5-485
- Library
  - accessing remote *GetStart-JN* B-4
  - application *GetStart-JN* 1-4, *GetStart-JN* 1-16
  - closing *Program* 5-267
  - creating *AppDev* E-8
  - creating remote *AppDev* E-9
  - defined *GetStart-2Tier* 2-6, *GetStart-JN* C-6
  - identifying for initialization *Cfg* 2-7
  - lock on *AppDev* 10-9
  - making read-only *AppDev* A-17
  - opening *AppDev* E-7, *Program* 5-268, *Program* 5-270
  - opening from JPL Program Text dialog *GetStart-2Tier* 9-4, *GetStart-JN* 13-4
  - opening from TOC *GetStart-2Tier* 7-2, *GetStart-JN* 11-2
  - opening remote *AppDev* E-7
  - opening screen
    - as window *Program* 5-574
    - at cursor location *Program* 5-86
  - set file locking scheme *AppDev* A-16
  - setting shared access for workstation client
    - setting shared access for client *JetNet* 2-8
  - source control management *AppDev* 10-4
  - storing JPL modules *AppDev* 19-12
  - synchronize with source code management *AppDev* A-17
  - table of contents *AppDev* E-5, *Editors* 2-8
  - viewing contents (TOC) *AppDev* E-5
- Library functions *Program* 5-1
- Java interfaces *Program* 6-1
- obsolete *Upgrade* C-1
- Library JPL module *AppDev* 19-16
- Library TOC *Editors* 2-8, *GetStart-2Tier* 7-2, *GetStart-JN* 11-2
- opening *AppDev* E-5
- License administration *Install* E-1
- license manager
  - determining version *Install* 8-5
  - error messages *Install* G-8
  - starting *Install* E-10
  - utilities *Install* E-6
- License file
  - DAEMON line *Install* F-2
  - FEATURE line *Install* F-2
  - INCREMENT line *Install* F-3
  - SERVER line *Install* F-2
  - specifying *Web* 12-5
- License request file *Install* 8-3
- license.dat *Install* F-1
- Licenses
  - about *Install* 8-2
  - create and delete Windows license service *Install* E-13
  - create\_license utility *Install* 8-4
  - daemons *Install* E-2
  - diagnostics *Install* E-8
  - file contents *Install* F-1
  - floating *Install* E-3
    - messages about *Install* G-12
  - license file
    - location of *Install* 8-5
  - license.dat *Install* 8-4
  - node-locked *Install* E-3
    - messages about *Install* G-13
  - options file *Install* E-4
  - read file *Install* E-15
  - remove user *Install* E-14
  - REPORTLOG *Install* E-5
  - requesting *Install* 8-3
  - schemes *Install* E-2
  - status *Install* E-16

- types *Install* E-3
- version of file *Install* E-19
- LIKE predicate
  - in JDB *JDB SQL* 6-33, *JDB SQL* 6-56
- Line drawing
  - for boxes *Cfg* 7-46
  - keywords *Cfg* 7-44
- Line graph
  - Bar/line graph *Editors* 13-4
  - Graph widget *Editors* 13-4
- Line length of JPL statement *AppDev* 19-4
- Line Style property
  - graph widget data series *Editors* 13-28
- Line styles
  - names of *AppDev* 45-34
  - setting in cmap file *AppDev* 45-34
- Line widget *Editors* 2-24, *Editors* 21-1
  - 3D (in Windows) *Editors* 10-25
  - default style *Editors* 21-2
  - specifying alias style *Editors* 21-2
  - specifying style *Editors* 21-3
- Line Width property
  - graph widget data series *Editors* 13-28
- Line/Box Style property *Editors* 21-2
  - 3D effect on *Editors* 10-25
- Lines
  - shrinking out when empty *Rpts* 8-15
- LINES keyword (video file) *Cfg* 7-24
- Link Attributes property
  - for hyperlinks *Web* 8-4
- Link service *GetStart-JN* 15-9
- Link widget *Editors* 2-24
  - creating *Editors* 22-12
  - properties *Editors* 22-13
  - relationship properties *AppDev* 33-23
  - selecting *Editors* 22-13
- Links *AppDev* 31-7
  - in automated SQL generation *AppDev* 33-22
  - noncyclic *Editors* 22-13
  - setting child table view *AppDev* 31-8
  - setting parent table view *AppDev* 31-8
  - setting runtime properties *QckRef* 1-126
  - setting the link type *AppDev* 31-9
  - specifying in screen wizard *Editors* 4-13
  - validation *AppDev* 31-13, *AppDev* 33-46, *AppDev* 33-47, *Editors* 22-21
    - adding lookup *AppDev* 33-49
    - enforcing foreign keys *AppDev* 33-48
- List box widget *Editors* 2-23, *Editors* 20-3
  - 3D (in Windows) *Editors* 10-25
  - and autotab behavior *Editors* 8-19
  - as part of combo box *Editors* 2-21
  - assigning double-click event to *Editors* 8-11
  - attaching an action to *Editors* 20-7
  - decorations *Editors* 20-4
  - enabling extended selection *Cfg* 2-29
  - event handler in Java *AppDev* 21-9
  - label *Editors* 20-4
  - populating *Editors* 20-6
  - scrolling *Editors* 20-5
  - selecting items *Editors* 20-3
  - title *Editors* 20-4
- List command
  - for parameter indexing *Cfg* 7-15
- Listbox Type property *Editors* 20-3, *Editors* 20-7
- LISTBOX\_SELECTION *Cfg* 2-29
- Listener Port property
  - for machine listener process *JetNet* 3-15
- Listener process
  - specifying port *JetNet* 3-15
  - starting *JetNet* A-7
- LM\_LICENSE\_FILE *GetStart-2Tier* 1-3, *GetStart-JN* 1-3, *Install* 5-5, *Install* 8-4, *Install* 8-6
- Imcksum
  - performs license file checksum *Install* E-7
- lmdiag
  - diagnoses license problems *Install* E-8
- lmdown
  - takes down license daemons *Install* E-9
- lmgrd
  - starts license daemon *Install* E-10

- version *Install* 8-5
  - lmhostid
    - prints hostid *Install* E-12
  - lminstall
    - create and delete Windows license service *Install* E-13
  - LMLicenseFile *Web* 12-5
  - lmremove
    - removes user license *Install* E-14
  - lmreread
    - rereads license file *Install* E-15
  - lmstat
    - reports license daemon status *Install* E-16
  - lmswitchr
    - switches FLEXadmin log file *Install* E-18
  - lmver
    - reports FLEXlm version *Install* E-19
  - Load Balancing property *JetNet* 3-11
  - Local currency *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
  - Local decimal symbol *AppDev* 45-23
  - Local JetNet Configuration File property *GetStart-JN* 1-9, *GetStart-JN* 1-22, *JetNet* 3-14
  - Locating
    - sources of inheritance *AppDev* E-31
  - Location
    - of Panther *Cfg* 2-5
  - Location property
    - graph widget axes *Editors* 13-16
  - Lock
    - on library/repository *AppDev* 10-9
  - Lock files *AppDev* A-16
  - Locking shifts *Cfg* 7-42
  - Log file
    - debugger *AppDev* 39-6
      - writing to *AppDev* 39-10
    - JetNet *JetNet* 4-10
    - JISQL *JDB SQL* 5-25
    - setting for web applications *Program* 5-563, *Web* A-2
    - writing server message to *Program* 2-36
  - Logical key
    - changing mapping of *Cfg* 6-15
    - defined *Cfg* 6-2
    - getting integer value *Program* 5-258
    - getting label *Program* 5-263
    - getting value *Program* 5-218
    - invoking control string from *AppDev* 18-2
    - mnemonics and hex values *Cfg* 6-7
    - required by prodev *Cfg* 6-7
  - Logical keyboard
    - vs. physical keyboard *Cfg* 6-3
  - Logical operators
    - in JDB *JDB SQL* 6-39
  - logon
    - connecting to JDB database *JDB SQL* A-4
  - long (data type)
    - in JDB *JDB SQL* 6-15
  - Long integer
    - reading from field *Program* 5-303
    - writing to field *Program* 5-307
  - Lookup specification *AppDev* 33-49
    - in Relations dialog box *AppDev* 33-49, *Editors* 22-19
  - Lookup table *Editors* 12-13
  - Loop
    - breaking from *Program* 2-4
    - for condition *Program* 2-27
    - skipping to next iteration *Program* 2-42
    - while condition *Program* 2-100
  - LP key (local print)
    - defining default *Cfg* 5-5
- M**
- m2asc *AppDev* A-22
  - Machine
    - activating and deactivating *JetNet* 4-4
    - adding to application configuration *JetNet* 3-6
    - listener port *JetNet* 3-15
    - maximum number in configuration *JetNet* 3-10

- removing from application configuration *JetNet* 3-6
- specifying address of
  - for *JetNet/Tuxedo Cfg* 2-11
- Machine configuration properties *JetNet* 3-12
  - network settings *JetNet* 3-15
- Machine environment file
  - required entries *JetNet* 2-5
- Macro commands
  - JISQL JDB SQL* 5-21
- Mail *AppDev* 49-1
  - creating mail object *AppDev* 49-4
  - creating new mail object *Program* 5-312
  - properties *AppDev* 49-1
  - sending *AppDev* 49-5, *Program* 5-311, *Program* 5-314
    - attachments *AppDev* 49-6, *Program* 5-309
    - field contents *Program* 5-315
    - text file *Program* 5-310
    - widget image *Program* 5-316
  - setting runtime properties *QckRef* 1-128
- Major Increment property
  - graph widget tick marks *Editors* 13-19
- makedlls
  - creating COM components *COM/MTS* A-2
- makeejb *WebSphere* A-2
- makefile
  - list *AppDev* 42-3
- makevars *AppDev* 42-4, *AppDev* 42-5
- Margins (reports)
  - specifying in Page Setup dialog *Rpts* 9-4
  - specifying on invocation *Rpts* 9-15
- MARKCHAR keyword (video file) *Cfg* 7-47
- Master (only) format *Editors* 4-4
  - specifying layout *Editors* 4-16
- Master machine
  - reassigning *JetNet* 3-8
  - reassigning in active application *JetNet* 4-7
- Master section
  - specifying contents of *GetStart-2Tier* 4-5, *GetStart-JN* 7-5
- Master-Detail format *Editors* 4-4
  - defining link for *Editors* 4-13
  - specifying layout *Editors* 4-16
- Master-Detail-Subdetail format *Editors* 4-4
  - specifying layout *Editors* 4-16
- Math expression *Editors* 8-26
  - calculating on the server *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
  - specifying in function call *Program* 5-103
- Matrix reports *Editors* 5-9
  - setting the matrix style *Editors* 5-22
  - specifying headings *Editors* 5-17
  - wrapping text overflow *Editors* 5-21
- Max Accessors property *JetNet* 3-13
- Max Data Length property
  - shifting fields *Editors* 10-16
- MAX function
  - in JDB *JDB SQL* 6-4
- Max Machines property *JetNet* 3-10
- Max Occurrences property
  - grid widgets *Editors* 15-8
  - list boxes *Editors* 20-6
  - scrolling array *Editors* 10-15
  - synchronized group *Editors* 8-23
- Max Server Processes property *JetNet* 3-10
- Max Servers property *JetNet* 3-11
- Max Services property *JetNet* 3-11
- Max Size property *Editors* 9-9
- Max/Min property *Editors* 6-8
- Maximize option
  - on screens *Editors* 6-8
- Maximum Decimals property *Editors* 10-21
- Maximum property
  - graph widget axes *Editors* 13-19
- Maximum Value property
  - scales *Editors* 14-19
  - setting *Editors* 14-13
- MDI frame
  - in Windows applications *AppDev* 13-6
  - placement of window in *Cfg* 3-5
  - with dockable toolbars *AppDev* 15-10

- MDT bit *AppDev* 23-14
  - clearing for all fields *AppDev* 23-15, *Program* 5-107
  - testing for modified field *Program* 5-548
  - testing to find first modified field *AppDev* 23-15
- Measurement
  - valid units of *Editors* 9-7
- Memo Text property
  - menu items *Editors* 25-11
  - screens *Editors* 6-30
  - widgets *Editors* 8-31
- Memory
  - allocating for application *Program* 5-228
  - deallocating *Program* 5-446
    - from argument lists *Program* 5-535
- Memory model property *JetNet* 3-8
- Memory-resident
  - JPL modules *AppDev* 19-13, *AppDev* 42-9
  - screens *AppDev* 42-9
  - video file *Cfg* 8-7
- Memory-resident list
  - purging *Program* 5-452
  - updating *Program* 5-196
- Menu
  - adding item *Program* 5-345
  - ASCII format *Editors* 25-19
  - ASCII/binary conversion *AppDev* A-22
  - attaching to screen as menu bar *Editors* 6-27
  - changing properties *Program* 5-319
  - creating *Editors* 25-3
  - creating at runtime *Program* 5-323
  - definition *AppDev* 15-1
  - deleting at runtime *AppDev* 15-11, *Program* 5-324
  - deleting item *Program* 5-348
  - deleting items at runtime *AppDev* 15-12
  - displaying as toolbar *AppDev* 15-1, *AppDev* 15-7
  - external reference *AppDev* 15-6, *Program* 5-332
  - getting last error *Program* 5-317
  - getting property *Program* 5-325
  - hierarchical view in editor *Editors* 25-16
  - initializing *Program* 5-338
  - installing *AppDev* 15-3, *Program* 5-328
    - for application *AppDev* 15-4
    - for screen *AppDev* 15-4
    - for widget *AppDev* 15-4
    - unique instances of *AppDev* 15-6
  - installing unique content *Program* 5-331
  - loading *Program* 5-354
  - loading script into memory *AppDev* 15-2
  - naming *Editors* 25-6
  - popup for field *Editors* 8-6, *Program* 5-425
    - invoking *AppDev* 15-13
  - popup for screen *Editors* 6-28
  - popup title *Editors* 25-6
  - properties of *Editors* 25-6
    - changing at runtime *AppDev* 15-9
  - property constants *Program* 5-320, *Program* 5-326
  - removing *Program* 5-332, *Program* 5-333
  - removing from display *AppDev* 15-12
  - saving in editor *Editors* 25-19
  - scope assignment and display *AppDev* 15-4
  - separator styles *Editors* 25-13
  - setting scope *Program* 5-328
  - sharing content *Program* 5-331
  - tear-off *Editors* 25-6
  - testing *AppDev* 38-8, *Editors* 6-29
    - in menu bar editor *Editors* 25-18
  - unloading *Program* 5-356
  - unused in file *Editors* 25-17
- Menu bar
  - assigning in screen wizard *Editors* 4-22
  - displaying items on *Editors* 25-8
  - in application mode *AppDev* 38-2
  - screen wizard template *Editors* 3-4
  - submenu indicator *Cfg* 7-48



Menu bar editor *Editors* 25-1

Menu item

- adding at runtime *Program* 5-345
- assigning control string to *Editors* 25-8
- attaching external help *Editors* 25-11
- attaching help screen *Editors* 25-10
- attaching Panther help screen *Editors* 12-9
- changing properties *Program* 5-339
- deleting *Program* 5-348
- displaying on menu bar *Editors* 25-8
- displaying on toolbar *Editors* 25-9
- displaying status of *AppDev* 26-8
- getting properties *Program* 5-349
- inactivating *Editors* 25-10
- including help *Editors* 25-11
- indicator symbol
  - reserving space for *Editors* 25-8
  - setting for character mode *Cfg* 7-47
- invoking submenu *Editors* 25-12
- keyboard mnemonic *Editors* 25-7
- naming *Editors* 25-7
- platform-specific types *Editors* 25-12
- properties of *Editors* 25-7
- property constants *Program* 5-340, *Program* 5-350
- right justifying on menu bar *Editors* 25-9
- setting status in transaction style *Editors* 23-9
- setup variables *Cfg* 5-3
- text *Editors* 25-7
- transaction classes for *Editors* 23-7
- type constants *Program* 5-346
- types *Editors* 25-11
  - action *Editors* 25-11
  - edit *Editors* 25-12
  - separator *Editors* 25-11
  - submenu *Editors* 25-12
  - toggle *Editors* 25-11
  - windows list *Editors* 25-12
  - windows operations *Editors* 25-12

Menu list window *Editors* 25-16

Menu Name property *AppDev* 15-4

- menus *Editors* 25-6
- screens *Editors* 6-28

Menu property

- menu items *Editors* 25-8

Menu script

- loading into memory *AppDev* 15-2, *Program* 5-354
- unloading from memory *AppDev* 15-12
- unloading into memory *Program* 5-356

Menu Script File property *AppDev* 15-2, *Editors* 6-28

Menu Title property *Editors* 25-6

Menus

- description *GetStart-2Tier* 2-10, *GetStart-JN* C-10
- formMenus resource *Cfg* 4-8
- in character-mode *Cfg* 5-3
- widget hierarchy in Motif *Cfg* 4-17

Message

- acknowledgment *AppDev* 26-2, *AppDev* 45-12, *Program* 2-38, *Program* 2-40
  - forcing *Cfg* 2-23, *AppDev* 45-11
- acknowledgment key *Program* 2-39
- bell *AppDev* 45-10, *Editors* 12-4, *Program* 2-39
- creating *AppDev* 45-5
- default display
  - in status line *Cfg* 2-20, *AppDev* 26-1, *Program* 2-38
  - in window *Cfg* 2-20, *AppDev* 26-1, *Program* 2-38
- dequeuing *JetNet* 8-13
- disabling display of *AppDev* 26-2
- display attributes in *Cfg* 2-21, *AppDev* 45-8, *AppDev* 45-9
  - hexadecimal codes for *AppDev* 45-9
- displaying
  - background status *AppDev* 26-9
  - error tag *Program* 2-37

- forcing to window *Cfg* 2-20, *Program* 2-40
- in dialog box *Program* 5-334
- in window *AppDev* 45-12
- on status line *AppDev* 26-7
- through JPL commands *Program* 2-37
- using function *Program* 5-155, *Program* 5-158
- displaying attributes in *Program* 2-39
- displaying error message *Program* 5-200, *Program* 5-201
- displaying in status line *Program* 5-155, *Program* 5-158
- enqueueing *JetNet* 8-12
- error *AppDev* 26-1
- finding *Program* 5-366
- forcing to status line *Program* 2-40
  - automatic dismissal *AppDev* 45-11, *Program* 2-39
- from web applications *Web* A-2
- functions for displaying *AppDev* 26-4
- key labels in *AppDev* 45-10, *Program* 2-39
- line break insertion *Program* 2-40
- logging Web client events *Web* 12-6
- logging Web server events *Web* 12-8
- multiple lines in *AppDev* 45-12
- Panther-specific *AppDev* 45-4
- putting on status line *Program* 5-360
- queue *JetNet* 8-11
- Ready/Wait status *Program* 5-475
- retrieving from message file *Program* 5-362, *Program* 5-365
- send via request broker *AppDev* 9-2
- setting attributes *Program* 5-156
- setup variables *Cfg* 2-20
- status
  - formStatus Motif resource *Cfg* 4-8
  - text not visible *Cfg* 2-21
  - writing to log *Program* 5-305
- Message dialog box
  - button combinations *Program* 5-335
  - default button *Program* 5-336
  - modality *Program* 5-336
  - system icon *Program* 5-336
  - text format options *Program* 5-335
- Message event *JetNet* 6-17
  - built-in handlers *JetNet* 6-20
  - handler contract *JetNet* 6-19
- Message file *AppDev* 45-2
  - converting to binary (msg2bin) *AppDev* A-29
  - deleting *Program* 5-361
  - identifying for initialization *Cfg* 2-9
  - JDB *JDB SQL* 4-6
  - making memory-resident *AppDev* 42-11
  - modifying *AppDev* 45-2
  - multiple sections *AppDev* 45-6
  - reading *Program* 5-363
  - size *AppDev* 45-6
  - syntax *AppDev* 45-4
  - text *AppDev* 45-5
  - translating *AppDev* 45-2
  - using alternate *AppDev* 45-24
  - variable *Cfg* 2-9
- Message handler
  - invoked by client *Program* 2-57
- Message queuing
  - in Enterprise Bank *JetNet* C-1
  - in the JIF *Editors* 24-15
  - setting resources *JetNet* 2-12
- MESSAGE\_WINDOW *Cfg* 2-20
- Messages
  - logging server messages
    - for EJBs *WebSphere* 2-8
    - in COM+ *COM/MTS* 3-17
- Metafile
  - displaying and printing *Program* 5-455
- Method
  - receiving parameters *Program* 5-444
- Method property *AppDev* 36-7, *AppDev* 36-11
- Methods
  - adding
    - for components *Editors* 7-4

- calling
  - for COM components *COM/MTS* 4-3
  - for EJBs *WebSphere* 7-5
  - types of parameters *COM/MTS* 4-3, *WebSphere* 7-5
- changing
  - for components *Editors* 7-4
- defining
  - for COM components *COM/MTS* 3-3
  - for components *Editors* 7-4
  - for EJBs *WebSphere* 5-4
- executing
  - ActiveX methods *Editors* 18-9
  - COM methods *Program* 5-393
- implementing
  - for COM components *COM/MTS* 3-13
  - for EJBs *WebSphere* 5-16
- returning parameters *Program* 5-451
- Microsoft Management Console
  - registering COM components *COM/MTS* 5-6
- Microsoft SQL Server
  - error messages *Install G-5*
- Middleware
  - broadcasting service message
    - in JetNet/Tuxedo *Program* 2-5
  - configuring *GetStart-JN* 1-6
  - connecting client to
    - in JetNet/Tuxedo *Program* 2-11
  - connecting to *Cfg* 2-10, *AppDev* 1-7, *AppDev* 9-1, *AppDev* E-9
  - disconnecting client from
    - in JetNet/Tuxedo *Program* 2-10
  - in three-tier architecture *GetStart-2Tier* 2-16, *GetStart-JN* C-16
- Middleware API parameters *Install* C-3
- Middleware configuration file
  - address of *Cfg* 2-10
  - defined *JetNet* 2-10
- Middleware transaction
  - committing *Program* 2-106, *Program* 2-108
  - completing *Program* 2-108
  - rolling back *Program* 2-108, *Program* 2-110
  - starting *Program* 2-102
- Millimeter
  - as unit of measurement *Editors* 9-7
- MIN function
  - in JDB *JDB SQL* 6-4
- Min Handlers property *JetNet* 3-18
- Min Size property *Editors* 9-9
- Minimize option
  - on screens *Editors* 6-8
- Minimum Decimals property *Editors* 10-21
- Minimum Digits property
  - check digit modulus *Editors* 8-29
- Minimum Horizontal Space property
  - box *Editors* 21-7
  - screen *Editors* 6-12
- Minimum Instances *GetStart-JN* 2-3, *GetStart-JN* 2-5
- Minimum Instances property *JetNet* 3-20
- Minimum property
  - graph widget axes *Editors* 13-19
- Minimum Value property
  - scales *Editors* 14-19
  - setting *Editors* 14-13
- Minimum Vertical Space property
  - box *Editors* 21-7
  - screen *Editors* 6-13
- Minor Increment property
  - graph widget tick marks *Editors* 13-19
- mksql
  - creating script for JDB database *JDB SQL* A-6
- Mnemonic
  - accessing from data entry widgets *Editors* 8-5
  - assigning to widget *Editors* 8-4
  - attaching to menu item *Editors* 25-7
- Mnemonic Position property
  - push button label *Editors* 19-3
  - widgets *Editors* 8-5
- MODE0 to MODE6 keyword *Upgrade* B-2
  - in video file *Cfg* 7-42

- Model property
  - screen *Editors* 22-4
  - set by screen wizard *Editors* B-5
  - table view *Editors* 22-4
- Module type
  - specifying in debugger *AppDev* 39-14
- Money
  - currency format *Editors* 10-21
- monitor utility
  - administering web applications *Web* A-2
  - cause dispatcher to reread configuration file *Web* A-2
  - deleting expired cache files *Web* A-2
  - find Windows service names *Web* A-2
  - installing Windows service *Web* A-4
  - restarting a web application *Web* A-3
  - starting a web application *Web* A-3
  - stopping a web application *Web* A-3
- Monochrome terminal *AppDev* 45-9
- More button *Editors* 2-29
  - in Properties window *AppDev* E-15
- Motif
  - common color names *Cfg* 4-5
  - deploying application *AppDev* D-4, *JetNet* F-5
  - setting defaults *Cfg* 4-1
- Motif resource file
  - defining color scheme *Editors* 11-2
  - defining pixmap location *Editors* 21-12
  - specifying *AppDev* 43-8
  - splash screen *AppDev* 43-8
  - text alignment *Editors* 10-6
- MOUS\_CRCSR\_ATTR *Cfg* 2-27
- MOUS\_CRCSR\_CHAR *Cfg* 2-27
- MOUS\_CRCSR\_MASK *Cfg* 2-27
- Mouse
  - right-button behavior *Editors* 8-6
  - support *Cfg* 7-48
- Mouse driver
  - specifying *Cfg* 7-48
- Mouse events
  - getting name of last clicked-on field *AppDev* 47-5
  - getting name of last clicked-on screen *AppDev* 47-6
  - getting state of buttons *AppDev* 47-6, *Program* 5-357
  - getting system time *Program* 5-379
- Mouse pointer
  - custom shape creation *Editors* 6-21
  - help mode shape *Program* 5-472
  - shape options for Motif *Editors* 6-19
  - shape options for Windows *Editors* 6-20
  - specifying *Editors* 6-19
- MOUSEDRIVER keyword (video file) *Cfg* 7-48
- Mouseless interface *Editors* A-1
- Moving
  - file *Program* 5-165
- msg2bin
  - errors *AppDev* A-30
- msg2hdr *AppDev* A-34
  - errors *AppDev* A-35
  - sample output *AppDev* A-35
- MSGATT keyword (video file) *Cfg* 7-40
  - flags for *Cfg* 7-40
- MSSCCI Support *AppDev* 10-1
- MTS
  - creating service components *AppDev* 12-8
  - defined *COM/MTS* 1-2
  - deploying COM components *COM/MTS* 5-1
  - using Microsoft Management Console *COM/MTS* 5-6
- Mullion
  - in a frameset *Editors* 17-1
- Multi-item properties
  - Multi-item properties
    - accessing in JPL *AppDev* 19-41
- Multiline text widget *Editors* 2-20
  - 3D (in Windows) *Editors* 10-24
  - and autotab behavior *Editors* 8-19
  - assigning double-click event to *Editors* 8-11
  - specifying word wrap on *Editors* 14-17

- Multiple Create mode *Editors* 2-10
- Multiple sections
  - in message file *AppDev* 45-6
- Multiple Select mode *Editors* 2-9
- Multiple table joins *JDB SQL* 6-29
- Multiplication operation
  - in JDB *JDB SQL* 6-37
- Multiprocessor property *JetNet* 3-13
- Multi-user access *AppDev* 10-3
- Must Fill property *Editors* 14-15
  
- N**
- Name property *GetStart-2Tier* 7-10, *GetStart-JN* 11-14
  - for machine *JetNet* 3-13
  - for server *JetNet* 3-20
  - layout area *Rpts* 2-5
  - link *Editors* 22-14
  - menu items *Editors* 25-7
  - report node *Rpts* 3-9
  - selection group *Editors* 20-14
  - style widget *Editors* 23-9
  - table view *Editors* 22-3, *Editors* 22-14
  - widgets *Editors* 8-3
- Naming conventions
  - for selection screens *GetStart-JN* 15-7
  - for services *GetStart-JN* 8-4
  - in Panther *AppDev* E-17
- Natural joins *JDB SQL* 6-28
- Navigating
  - in wizards *Editors* 3-6
- NCARD key (next card) *AppDev* 23-12
- Network Device property *JetNet* 3-15
- Network settings
  - in machine configuration *JetNet* 3-15
- NEW
  - transaction manager command
    - entering new data *Program* 8-47
- New command *GetStart-JN* 9-6
- newapp directory *GetStart-JN* 1-4, *GetStart-JN* 1-16
- Next Tab Stop property *Editors* 8-14
  - on dynamic labels *Editors* 8-4
- NL key (newline)
  - acting like XMIT *Cfg* 2-30
- No auto tab
  - setting *Cfg* 2-17
- No border
  - screens *Editors* 6-22
- No Validation property *Editors* 8-9
  - in styles editor *Editors* 23-12
- Non-locking shifts *Cfg* 7-42
- Nonprinting characters *Cfg* 7-7
- NOT keyword in JDB
  - in joins *JDB SQL* 6-27
  - NOT BETWEEN *JDB SQL* 6-7, *JDB SQL* 6-54
  - NOT EXISTS *JDB SQL* 6-48, *JDB SQL* 6-55
  - NOT IN *JDB SQL* 6-48, *JDB SQL* 6-55
  - NOT LIKE *JDB SQL* 6-33, *JDB SQL* 6-56
  - NOT NULL *JDB SQL* 6-35, *JDB SQL* 6-56
- NSAPI *GetStart-2Tier* 2-1
  - setting type of requester executable *Web* B-1
  - setting up web applications *Web* C-1
- NULL
  - specifying in JDB *JDB SQL* 6-35
- Null edit
  - colon-equal processing *AppDev* 30-7
  - on required data field *Editors* 14-15
  - results of *Editors* 10-13
  - with edit masks *Editors* 14-7
  - writing null value to database *AppDev* 30-3, *AppDev* 30-9
- Null Field property *Editors* 10-12
  - in automated SQL generation *AppDev* 33-17
  - writing null values to database *AppDev* 30-3, *AppDev* 30-9
- Null statement in JPL *AppDev* 19-5
- Null Text property *Editors* 10-12
- Null value
  - and arithmetic operations in JDB *JDB SQL*

- 6-37
- and COUNT aggregate function *JDB SQL* 6-4
- default indicator *Editors* 10-12
- defined *JDB SQL* 2-3
- specifying in *JDB JDB SQL* 6-35, *JDB SQL* 6-41
- writing to database *AppDev* 30-3, *AppDev* 30-9
- Number of rows
  - specifying for grid widget *Editors* 15-8
- Number of Selections property
  - radio button widget *Editors* 20-8
  - selection group *Editors* 20-14
  - toggle button widget *Editors* 20-9
- Numbering
  - in arrays *AppDev* 14-6
- Numeric data *Editors* 14-4
  - formatting empty field *Program* 5-9
  - range checking *AppDev* 48-4
  - reading from database *AppDev* 29-16
  - specifying for scale widgets *Editors* 14-19
  - specifying range *Editors* 14-13
  - writing to database *AppDev* 30-7
- Numeric expression
  - JPL AppDev* 19-53
- Numeric format *Editors* 10-20
  - defining custom format *Editors* 10-21
  - examples of *Editors* 10-21
  - including punctuation *Editors* 10-21
  - JPL AppDev* 19-54
  - rounding *Editors* 10-22
  - zero format *Editors* 10-22
- O**
- Object ID
  - for graphics file *Program* 5-112
  - for widgets *AppDev* 14-3
- Objects
  - creating *Program* 5-398, *Program* 5-399, *Program* 5-400
- OCCUR
  - dbms command
    - setting occurrence for SELECT *AppDev* 29-14, *Program* 11-37
- Occurrence
  - deleting *AppDev* 23-8, *Program* 5-150
  - deselecting
    - in selection group *Program* 5-145
  - getting current number *Program* 5-413
  - inserting *AppDev* 23-8, *Program* 5-236
  - numbering *AppDev* 14-6
  - referencing *Editors* 8-3
  - setting attributes *Cfg* 2-27
  - setting the number of *AppDev* 14-6
  - specifying in tab order *Editors* 8-15
- ODBC
  - error messages *Install* G-5
  - verifying cursor behavior *Program* 5-64
- OMSG keyword (video file) *Cfg* 7-39
- One Per Page property
  - detail *Rpts* 8-5
  - group *Rpts* 8-6
- ONENTRY
  - dbms command
    - calling function before dbms command *AppDev* 37-7
    - installing function to call before dbms command *Program* 11-39
- ONERROR
  - dbms command
    - installing error handler *AppDev* 37-7, *Program* 11-41
- One-time events
  - in reports *Rpts* 5-8
- ONEXIT
  - dbms command
    - calling function after dbms command *AppDev* 37-7
    - installing function to call after dbms command *Program* 11-44

- Onscreen attributes
  - defined *Cfg* 7-28
  - setting *Cfg* 7-29
- Onscreen Columns property *Editors* 15-5, *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
- Onscreen Rows property *Editors* 10-14
  - grid widget *Editors* 15-8
  - list box widget *Editors* 20-5
- Opening
  - application components (screens, reports, service components) *AppDev* E-4
  - repository *AppDev* E-21
  - on startup *AppDev* E-21
  - screens *AppDev* 13-3
- Operands
  - conversion in JPL *AppDev* 19-49
- Operating system
  - accessing from control string *AppDev* 18-8
  - date/time
    - displaying *Editors* 10-18
  - escaping from application *Program* 5-297
  - executing command *Program* 5-214, *Program* 5-478
    - from JISQL *JDB SQL* 5-4
    - from JPL *Program* 3-6
  - getting date/time *Program* 5-467
  - returning to application *Program* 5-450
- Operator property *AppDev* 33-15, *GetStart-2Tier* 7-11, *GetStart-JN* 11-15
  - in automated SQL generation *AppDev* 33-15
- Operators
  - in JDB *JDB SQL* 6-37
  - JPL operators *AppDev* 19-47
  - supported in WHERE clause *AppDev* 33-14
- Optimistic locking
  - property settings *AppDev* 33-39
  - Web application *Web* 10-4
- Option menu widget *Editors* 2-21, *Editors* 14-20
  - 3D (in Windows) *Editors* 10-25
  - and autotab behavior *Editors* 8-19
  - controlling size of *Editors* 14-22
  - event handler in Java *AppDev* 21-10
  - identifying to external screen *Program* 5-418
  - indicator symbol
    - setting for character mode *Cfg* 7-47
  - populating *Editors* 14-21
  - populating in Web application *Web* 5-8
  - scrolling *Editors* 14-22
  - specifying initial text *Editors* 14-24
  - updating contents *Program* 5-555
- OPTMNUIND keyword (video file) *Cfg* 7-47
- Oracle
  - error messages *Install* G-6
- ORDER BY clause
  - changing SQL generation *Program* 5-43
  - in automated SQL generation *AppDev* 33-21
  - in JDB *JDB SQL* 6-42
- Order property
  - toolbar items *Editors* 25-9
- Order total *GetStart-2Tier* 12-9, *GetStart-JN* 16-11
- order\_valid.jsp *GetStart-2Tier* 12-14, *GetStart-JN* 16-16
- Ordering
  - grid columns *Editors* 15-6
- Orientation
  - setting in Page Setup dialog *Rpts* 9-4
  - setting on invocation *Rpts* 9-15
- Orientation property *Rpts* 8-2
  - graph widget *Editors* 13-14
- Other Style property *Editors* 21-2
- Output driver
  - defaults *Rpts* 9-11
  - specifying in Print Setup dialog *Rpts* 9-6
- Output file
  - specifying on invocation *Rpts* 9-13
- Output function
  - arguments *Rpts* D-1
  - invoking *Rpts* D-3
  - return values *Rpts* D-2
- Output parameters
  - device file *Rpts* C-1

- Output processing
  - messages *AppDev* 26-7
- Overlapping
  - widgets *AppDev* E-17
- Overlapping Widgets menu option *AppDev* E-17
- P**
- Packed decimal *Editors* 8-6
- Padding commands *Cfg* 7-16
- Page breaks *Rpts* 8-7
  - allowing in
    - detail *Rpts* 8-5
    - group header/footer *Rpts* 8-7
    - groups *Rpts* 8-5
    - subreport *Rpts* 8-7
  - forcing before each detail *Rpts* 8-5
  - forcing before new group *Rpts* 8-6
- Page footer *Rpts* 8-1
  - positioning *Rpts* 8-2
- Page format
  - resetting *Rpts* 8-3
  - setting properties *Rpts* 8-2
- Page format node
  - defined *Rpts* 8-1
- Page header *Rpts* 8-1
- Page number
  - outputting *Rpts* 8-3
  - resetting value *Rpts* 8-3
- Page Size property *Rpts* 8-2
- Pagination *Rpts* 8-4
- Pane widget *Editors* 17-4
  - in a frameset *Editors* 17-1
  - properties in web applications *Editors* 17-16
  - runtime properties *Editors* 17-13
- Panes
  - setting runtime properties *QckRef* 1-120
- Panther
  - components of *GetStart-2Tier* 2-6, *GetStart-JN C-6*
  - description *AppDev* 1-1
  - description of directories *AppDev* 2-1
  - overview *GetStart-2Tier* 2-1, *GetStart-JN C-1*
  - setting location of *Cfg* 2-5
  - starting *AppDev* E-2
  - upgrading from JAM *Upgrade* 1-1, *Upgrade* 2-1
- Panther basic colors
  - keywords *AppDev* 45-27
- Panther executables
  - building *AppDev* 42-1
  - including your C functions *AppDev* 20-1
  - modifying *AppDev* 42-6
- Panther Install Directory property *JetNet* 3-14
- Panther resource file
  - sample *Cfg* 4-20
- Panther type
  - character strings
    - fetching from database *AppDev* 29-15
    - writing to database *AppDev* 30-6, *AppDev* 30-8
  - converting to C type *AppDev* 30-4
  - currency formats
    - writing to database *AppDev* 30-5, *AppDev* 30-7
  - date and time formats
    - fetching from database *AppDev* 29-16
    - writing to database *AppDev* 30-5, *AppDev* 30-6, *AppDev* 30-9
  - hexadecimal strings
    - writing to database *AppDev* 30-7
  - numeric data
    - fetching from database *AppDev* 29-16
    - writing to database *AppDev* 30-7, *AppDev* 30-10
  - using to format selected data *AppDev* 29-15
- Panther Web Gallery
  - UNIX *Install* 8-15
  - Windows *Install* 5-9
- Paper size
  - specifying in Page Size dialog *Rpts* 9-4
  - specifying on invocation *Rpts* 9-15



- Parameters
  - declaring in JPL *AppDev* 19-2
    - named procedure *Program* 2-49
    - unnamed procedure *Program* 2-45
  - for binding
    - in DECLARE CURSOR command *AppDev* 28-6, *AppDev* 30-11
  - name requirements
    - in JPL *Program* 2-45
- Parent First specification *Editors* 22-16
- Parent object
  - finding *AppDev* E-31
  - finding children of *AppDev* E-32
  - turning inheritance on/off for specific properties *AppDev* 11-9
- Parent property
  - determining parent table view *AppDev* 31-8
  - table views *Editors* 22-14
- Partial command *AppDev* 34-6, *JetNet* 7-2, *JetNet* B-4
- Password *GetStart-JN* 1-14, *GetStart-JN* 1-27
  - setting for application *JetNet* 3-12
  - supplying on client connection
    - in *JetNet/Tuxedo Program* 2-13
- Password Char property *Editors* 10-5
- Password Field property *Editors* 10-5
  - in web applications *Web* 3-9
- Path
  - finding for file *Program* 5-161
  - setting search path *Cfg* 2-9
- PCARD key (previous card) *AppDev* 23-12
- PDF
  - generating reports in *Rpts* 9-12
- Pending keys *AppDev* 39-6
- Percent commands
  - for terminal delays *Cfg* 7-16
  - in video file *Cfg* 7-9
- Percent escapes
  - in JPL msg command *Program* 2-38
  - in message file *AppDev* 45-8
- Percent Location property
  - graph widget
    - pie chart *Editors* 13-36
- Permissions *GetStart-2Tier* 2-18
  - changing for shared files *GetStart-JN* 5-21
- Pie chart *Editors* 13-31
  - creating *Editors* 13-32
  - legend *Editors* 13-10, *Editors* 13-11
  - segments *Editors* 13-35
  - specifying in report wizard *Editors* 5-20
- Pixel
  - as unit of measurement *Editors* 9-7
- Pixmap
  - creating *Editors* 19-5
  - displaying on toolbar items *Editors* 25-14
  - displaying on widgets *Editors* 21-10
  - location on system *Editors* 21-12
    - Motif *Editors* 25-16
    - Windows *Editors* 25-16
  - on push button widget *Editors* 19-5
  - sizing
    - on toolbar items *Editors* 25-15
    - on widgets *Editors* 21-12
- Placement property *Editors* 10-21
  - graph widget legend *Editors* 13-10
  - widgets
    - in reports *Rpts* 2-9
- Playback function *AppDev* 44-43
  - example *AppDev* 44-84
  - return codes *AppDev* 44-43
  - standard argument *AppDev* 44-43
  - turning on or off *Program* 5-259
- Point Marker property
  - graph widget data series *Editors* 13-29
- Point Size property *Editors* 10-9
- Pointer property *Editors* 6-19
- Polling
  - for reply from service *Program* 2-69
- Popup menu
  - invoking *AppDev* 15-13, *Program* 5-425

- Popup Menu property
  - screens *AppDev* 15-4, *Editors* 6-28
  - widgets *AppDev* 15-4, *Editors* 8-6
- Popup Script File property *Editors* 8-6
- Port number *Cfg* 2-11
- Portability *AppDev* 48-1
  - aliasing colors *AppDev* 45-26
  - font name *Editors* 10-7, *Editors* 13-8
  - smmach.h *AppDev* 48-1
  - terminal *Upgrade* B-5
- Portrait page orientation
  - setting in report file *Rpts* 8-2
  - specifying on invocation *Rpts* 9-15
- Position Region property *Editors* 21-5
- Positioning properties
  - box widgets *Editors* 21-6
- Positioning regions
  - in web applications *Web* 3-15
- POST method
  - sending data to HTTP server *Web* 4-2
- Post\_request event *JetNet* 6-20
  - built-in handlers *JetNet* 6-21
  - handler contract *JetNet* 6-21
  - handlers *JetNet* 6-20
- Post\_service event *JetNet* 6-25
  - built-in handlers *JetNet* 6-28
  - handlers *JetNet* 6-25
- Posting screens
  - getting name of screen *Web* 6-3
- PostScript
  - generating reports in *Rpts* 9-12
- Pre\_request event *JetNet* 6-20
  - built-in handlers *JetNet* 6-21
  - handler contract *JetNet* 6-21
  - handlers *JetNet* 6-20
- Pre\_service event *JetNet* 6-25
  - built-in handlers *JetNet* 6-27
  - handlers *JetNet* 6-25
- Precision
  - in SELECT results *AppDev* 29-16
- Precision property
  - for C type specification *Editors* 8-6
- Preferences
  - saving in debugger *AppDev* 39-7, *AppDev* 39-9
  - setting in debugger *AppDev* 39-6
- Prefix Markup property *Web* 8-4, *Web* 8-20
- Preview button *Editors* 3-6
- Previous Tab Stop property *Editors* 8-14
- Primary Key property
  - in automated SQL generation *AppDev* 33-38
- Primary keys *GetStart-2Tier* 5-5, *GetStart-JN* 9-5, *JDB SQL* 2-8
  - defined *JDB SQL* 2-4
  - defining using JISQL *JDB SQL* 5-9
  - specifying in screen wizard *Editors* 4-8
  - updating
    - with transaction manager *AppDev* 36-9
- Primary Keys property *AppDev* E-29
  - table view *Editors* 22-5
- Print file
  - setting system command *Cfg* 5-5
- Print node
  - justifying output *Rpts* 8-13
- Print setup dialog
  - saving settings *Rpts* 9-7
- Printers
  - directing output to *Rpts* 9-13
- Printing
  - report metafile *Program* 5-455
  - screen *Program* 5-388
- PrIserver.dll
  - locating *COM/MTS* 3-12
- Procedure
  - declaring in JPL *Program* 2-49
- Procedures properties
  - service components *Editors* 2-33
- prodev
  - starting *AppDev* E-2
  - startup options *AppDev* E-3

- Product changes
  - obsolete library functions *Upgrade* C-1
- Programming
  - in JPL
    - command overview *Program* 1-1
    - in Panther applications *GetStart-2Tier* 2-12, *GetStart-JN* C-12
    - modifying property values *AppDev* 1-16
    - sharing data *AppDev* 1-21
    - using application events *AppDev* 1-16
- Project
  - defining requirements *AppDev* 3-1
- Project requirements *AppDev* 1-2
  - defining the project team *AppDev* 1-3
- Projects
  - in Panther/WebSphere *WebSphere* 1-5
- prol5w32.ini
  - sample *Cfg* 3-11
- proltut
  - creating *GetStart-2Tier* 1-2, *GetStart-JN* 1-2, *GetStart-JN* 1-16
- Properties *QckRef* 1-120
  - accessing in JPL *AppDev* 19-40
    - application properties *AppDev* 19-41
    - multi-item properties *AppDev* 19-41
    - runtime properties *AppDev* 19-41
    - substring of setting *AppDev* 19-42
  - controlling inheritance *AppDev* E-29
  - defining
    - for COM components *COM/MTS* 3-7
    - for components *Editors* 7-6
    - for EJBs *WebSphere* 5-9
  - definitions *QckRef* 1-4
  - error handling *Program* 5-426
  - for ActiveX controls *QckRef* 1-121
  - for applications *Program* 5-231, *Program* 5-242, *QckRef* 1-103
  - for dockable toolbars *AppDev* 15-10
  - for framesets *QckRef* 1-105
  - for link widgets *QckRef* 1-126
  - for mail *QckRef* 1-128
  - for Panes *QckRef* 1-120
  - for reports *QckRef* 1-127
  - for screens *QckRef* 1-105
    - runtime only *AppDev* 13-8
  - for selection groups *QckRef* 1-122
  - for service components *QckRef* 1-109
  - for Splitters *QckRef* 1-119
  - for synchronized scrolling groups *QckRef* 1-123
  - for widgets *QckRef* 1-110
  - getting
    - for COM components *COM/MTS* 4-5
    - for EJBs *WebSphere* 7-6
  - getting at runtime *Program* 5-428
    - for menus *AppDev* 15-9
  - getting handle to object *Program* 5-432
  - layout area
    - editing *Rpts* 2-5
  - multi-item properties *AppDev* 19-41
  - screen property headings defined *Editors* 2-32
  - setting *AppDev* E-14, *GetStart-2Tier* 6-1, *GetStart-JN* 10-1, *QckRef* 1-101
    - for COM components *COM/MTS* 4-5
    - for EJBs *WebSphere* 7-6
  - setting at runtime *Program* 5-435
    - for menus *AppDev* 15-9
  - setting global *Program* 5-439
  - transaction manager *AppDev* 36-19, *AppDev* 36-26
  - translating JPL mnemonics to integer IDs *Program* 5-434
  - traversal *AppDev* 36-19
  - value types *AppDev* 19-42
  - widget property headings defined *Editors* 2-30
  - XML *QckRef* 1-108
- Properties window *AppDev* E-14, *GetStart-2Tier* 6-2, *GetStart-JN* 10-3
  - expanding/collapsing *Editors* 2-29
  - in menu bar editor *Editors* 25-3
  - in styles editor *Editors* 23-2

- Property links
    - for node *Rpts* 3-11
  - Property specifications
    - set by report wizard *Editors* B-8
    - set by screen wizard
      - three-tier screens *Editors* B-4
      - two-tier screens *Editors* B-1
  - proserv *GetStart-JN* 1-17
    - setting the environment *GetStart-JN* 1-5
  - Protected widgets *Editors* 13-1
  - Protection
    - and tabbing order *Editors* 8-9
    - focus *Editors* 8-8
    - for widgets *Editors* 8-8
    - from clearing *Editors* 8-10
    - from clearing data *Editors* 14-16
    - from entering data *Editors* 14-16
    - scrolling field *Editors* 8-10
    - shifting field *Editors* 8-10
    - tabbing into *Editors* 8-8
    - validation *Editors* 8-9
  - Prototyped function *AppDev* 44-8
    - examples *AppDev* 44-52
    - get standard arguments *AppDev* 44-8
    - valid prototypes *AppDev* 44-10
  - proweb executable *GetStart-2Tier* 2-4
  - Public module
    - for service routines *JetNet* 5-13
    - loading *AppDev* 17-6, *Program* 2-51, *Program* 5-253
    - unloading *Program* 2-91, *Program* 5-254
  - Punctuation
    - in numeric fields *Editors* 10-21
  - Push button widget *Editors* 2-22, *Editors* 19-1, *GetStart-2Tier* 8-9, *GetStart-JN* 12-9
    - assigning mnemonic *Editors* 19-3
    - attaching action to *Editors* 19-7
    - cancel *Editors* 19-6
    - deactivating *Editors* 19-6
    - default *Editors* 19-6
    - displaying images on *Editors* 19-4
    - event handler in Java *AppDev* 21-11
    - in repository entry *Editors* 19-2
    - label text alignment *Editors* 10-6, *Editors* 19-2
    - setting initial activation status *Editors* 19-6
    - setting status in transaction style *Editors* 23-9
    - specifying in screen wizard *Editors* 4-21
    - transaction classes for *Editors* 23-7
    - Web application usage *Web* 3-9
  - PVCS support *AppDev* 10-1
- Q**
- Queries
    - database *JDB SQL* 6-44
  - QUERY
    - dbms command
      - executing SQL statement that returns data *Program* 11-46
  - QueryInterface
    - calling for COM components *Program* 5-114
  - Queue
    - associated with services *Editors* 24-15
    - changing queuespace membership *Editors* 24-19
    - creating in JIF
      - independent *Editors* 24-15
      - service *Editors* 24-17
    - defining in JIF *Editors* 24-15
    - deleting in JIF *Editors* 24-20
    - independent *Editors* 24-15
    - updating in JIF *Editors* 24-15
  - Queuespace *JetNet* 8-14
    - JIF *Editors* 24-15
  - quit
    - exiting ISQL *JDB SQL* A-4
- R**
- Radio button widget *Editors* 2-23, *Editors* 20-7
    - 3D (in Windows) *Editors* 10-25
    - displaying image on *Editors* 21-10

- event handler in Java *AppDev* 21-11
- Web application usage *Web* 3-10
  - selecting a grid row *Web* 3-12
- Range
  - checking *AppDev* 48-4
  - in regular expression *Editors* 14-7
  - search conditions in JDB *JDB SQL* 6-7
  - specifying *Editors* 14-13
- rb2asc *JetNet* A-4
- rbboot *JetNet* A-5
- rbconfig *GetStart-JN* 1-6, *JetNet* A-6
- rblisten *JetNet* A-7
- rbshutdown *GetStart-JN* 3-7, *GetStart-JN* 3-14, *GetStart-JN* 4-7, *JetNet* A-9
- RCP keyword (video file) *Cfg* 7-28
- Reading path *GetStart-2Tier* 3-8, *GetStart-JN* C-10
- Read-only library *AppDev* A-17
- Read-only screen
  - saving *AppDev* 10-10
- Ready/Wait status
  - displaying *AppDev* 26-8, *Program* 5-475
- Rearrange database columns *GetStart-2Tier* 11-4, *GetStart-JN* 15-4
- Receive data
  - reading bundle data *AppDev* 25-4
- Record function *AppDev* 44-43
  - example *AppDev* 44-84
  - return codes *AppDev* 44-43
  - standard argument *AppDev* 44-43
  - turning on or off *Program* 5-259
- Record-by-record reports *Editors* 5-3
- Redo
  - actions *Editors* 9-20
- REFRESH
  - transaction manager command
    - refreshing the screen *Program* 8-50
- Regenerate SQL property *AppDev* 36-11
- Region Margin property
  - box *Editors* 21-7
  - screen *Editors* 6-13
- Registering
  - COM components *COM/MTS* 5-3
  - sample COM components *COM/MTS* B-1
- Regular expression *Editors* 14-7
  - character classes
    - term *Editors* 14-10
  - character-level *Editors* 14-8
  - concatenating *Editors* 14-11
  - constructing *Editors* 14-9
  - examples of *Editors* 14-8
  - field-level *Editors* 14-8
  - properties in screen editor *Editors* 14-8
  - repeating *Editors* 14-11
  - simple *Editors* 14-9
  - special characters *Editors* 14-9
- Relational databases *JDB SQL* 2-1
- Relations property *AppDev* 33-23, *AppDev* 36-5, *Editors* 22-16
  - in automated SQL generation *AppDev* 33-27
- Reliable queue *JetNet* 8-11
  - dequeuing message
    - in Tuxedo *Program* 2-18
  - enqueueing message
    - in Tuxedo *Program* 2-22
  - example of *JetNet* 8-15
  - identifying *JetNet* 8-14
- Remote library *GetStart-JN* B-4
  - configuring server to access *GetStart-JN* 2-5
  - creating *AppDev* E-9
  - opening *AppDev* E-7
- Repeat character sequence
  - setting *Cfg* 7-24
- Repeating property *Editors* 10-12
- REPMAX keyword (video file) *Cfg* 7-24
- Report
  - JPL *AppDev* 19-14
- Report data
  - displaying only detail data *Editors* 5-19
  - displaying only summary data *Editors* 5-19

- Report parameters *Rpts* 5-2
- Report processing
  - returning last error message *Program* 5-454
  - running reports *Program* 5-456
- Report service
  - configuring standard server to advertise *Jet-Net* 3-23
- Report structure *Editors* 2-9
  - action nodes *Rpts* 3-4
  - adding node *Rpts* 3-6
  - contracting *Rpts* 3-8
  - defined *Rpts* 3-1
  - deleting node *Rpts* 3-7
  - editing *Rpts* 3-6
  - expanding *Rpts* 3-8
  - moving node *Rpts* 3-8
  - nodes *Rpts* 3-4
  - properties
    - editing *Rpts* 3-9
  - structure nodes *Rpts* 3-4
- Report title
  - specifying in screen wizard *Editors* 5-21
- Report types *Editors* 5-3
  - address labels *Editors* 5-11
  - column *Editors* 5-5
  - graph *Editors* 5-7
  - matrix *Editors* 5-9
  - row *Editors* 5-6
  - specifying in report wizard *Editors* 5-12
- Report wizard
  - choosing database columns *Editors* 5-14
  - grouping data *Editors* 5-16
  - including graphs *Editors* 5-19
  - resulting definition *Editors* 5-23
  - specifying report type *Editors* 5-12
  - starting *Editors* 5-1
  - template screen
    - and the repository *Editors* 5-2
  - totaling data
    - specifying totals *Editors* 5-19
- REPORTLOG *Install* E-5
- Reports
  - ASCII/binary conversion *AppDev* A-11
  - creating *AppDev* E-4
  - generating
    - in Panther/WebSphere *WebSphere* 3-2
  - generating from JPL *Program* 2-62
  - named and unnamed reports *Rpts* 5-2
  - overview *AppDev* 16-1
  - overview of *AppDev* 1-19
  - printing *Program* 5-455
  - samples *Rpts* E-1
  - setting runtime properties *QckRef* 1-127
  - using hyperlinks
    - in web applications *Web* 8-12
  - viewing *Cfg* 2-14
  - viewing in a browser *Rpts* 9-28
  - viewing report metafile *Program* 5-455
- Repository
  - adding objects to screen from *Editors* 6-4 and the report wizard *Editors* 5-1, *Editors* 5-2 and the screen wizard *Editors* 4-1, *Editors* 4-2
  - benefits *AppDev* 11-1
  - copying objects
    - for transaction manager *AppDev* 31-3
  - creating *AppDev* E-20, *GetStart-2Tier* 3-2, *GetStart-JN* 6-5, *WebSphere* 4-1
  - description *GetStart-2Tier* 2-6, *GetStart-2Tier* 2-9, *GetStart-JN* C-6, *GetStart-JN* C-9
  - for application development *AppDev* 1-13
  - from a database
    - build with *AppDev* 1-11
  - importing database objects *AppDev* 11-5
  - importing database to *AppDev* E-25
  - lock on *AppDev* 10-9
  - making read-only *AppDev* A-17
  - naming conventions *AppDev* E-19
  - opening *AppDev* E-21, *GetStart-2Tier* 4-2, *GetStart-JN* 7-2, *Program* 5-146
  - opening by default *GetStart-2Tier* 3-3, *GetStart-JN* 6-5

- opening on startup *AppDev* E-21
- opening screen in *GetStart-2Tier* 7-6, *GetStart-JN* 11-10
- propagating changes from *GetStart-2Tier* 8-5, *GetStart-JN* 12-5
- remote *GetStart-2Tier* 3-2, *GetStart-JN* 6-5
- screen wizard entries *AppDev* 11-8
- set file locking scheme *AppDev* A-16
- setting default pathname *Cfg* 2-6
- storing screen templates *AppDev* 11-5
- synchronize with source code management *AppDev* A-17
- table of contents *Editors* 2-8, *Editors* 6-4, *GetStart-2Tier* 3-6, *GetStart-JN* 6-9
- under source control management *AppDev* 10-4
- viewing contents (TOC) *AppDev* E-22
- Repository entry
  - and widget names *Editors* 8-4
  - creating *GetStart-JN* 12-11
  - from a database table *AppDev* E-25
  - opening *AppDev* E-21
  - saving *AppDev* E-24
- Repository TOC *Editors* 2-8, *Editors* 6-4
  - displaying comments *Editors* 6-30, *Editors* 8-30
- REPT keyword (video file) *Cfg* 7-24
- Request broker *AppDev* 9-1
  - and client *JetNet* 7-1
  - and transaction control *JetNet* 7-3
  - connecting to on the Web *GetStart-JN* 5-18
  - events *JetNet* 6-1
- Request broker command
  - executing from C function *Program* 5-533
- Request broker event handlers *JetNet* 6-5
  - advertise events *JetNet* 6-9
    - contract *JetNet* 6-9
  - built-in *JetNet* 6-6
  - default handlers *JetNet* 6-7
  - defined *AppDev* 17-26
  - exception events *JetNet* 6-11
    - contract *JetNet* 6-13
  - installing *JetNet* 6-3
  - jif\_changed events *JetNet* 6-16
    - contract *JetNet* 6-17
  - message events *JetNet* 6-17
    - contract *JetNet* 6-19
  - post\_request events *JetNet* 6-20
    - contract *JetNet* 6-21
  - post\_service events *JetNet* 6-25
    - contract *JetNet* 6-26
  - pre\_request events *JetNet* 6-20
    - contract *JetNet* 6-21
  - pre\_service events *JetNet* 6-25
    - contract *JetNet* 6-26
  - request\_received events *JetNet* 6-22
    - contract *JetNet* 6-23
  - server\_exit events *JetNet* 6-24
    - contract *JetNet* 6-24
  - unadvertise events *JetNet* 6-9
    - contract *JetNet* 6-9
  - unload events *JetNet* 6-29
    - contract *JetNet* 6-29
- Request broker events
  - default handlers *JetNet* 6-7
  - generated from within a handler *JetNet* 6-5
  - types *JetNet* 6-1
- Request events
  - in transaction manager *AppDev* 35-3
- Request\_received event *JetNet* 6-22
  - built-in handlers *JetNet* 6-23
- Requester executable *Web* 1-7
  - location of *Web* 2-2
  - specifying type *Web* B-1
- Request-level event scope
  - exception handlers *JetNet* 6-12
  - unload handlers *JetNet* 6-29
- Required property *Editors* 14-14
  - in styles editor *Editors* 23-11
- Requirements *GetStart-2Tier* 3-7, *GetStart-JN*

- C-10
- Reservation *GetStart-JN* 4-5, *GetStart-JN* 8-6
  - prompt for release of *Editors* 2-10
  - releasing *AppDev* 10-4
- Reset command *GetStart-2Tier* 5-4
- Reset function *AppDev* 44-41
  - example *AppDev* 44-82
  - return codes *AppDev* 44-42
  - standard argument *AppDev* 44-42
- RESET keyword (video file) *Cfg* 7-24
- Resize Function property *Editors* 6-7, *Editors* 9-10
- Resize screen *GetStart-2Tier* 7-4, *GetStart-JN* 11-9
- Resize widget *GetStart-2Tier* 8-10, *GetStart-2Tier* 12-4, *GetStart-JN* 12-10, *GetStart-JN* 16-4
- Resizable property *Editors* 6-7, *Editors* 9-9
- Resource file *Cfg* 4-1
  - application behavior options *Cfg* 4-7
  - baseWindow *Cfg* 4-12
  - class name *Cfg* 4-2
  - colors *Cfg* 4-3
  - formStatus *Cfg* 4-8
  - global resources *Cfg* 4-11
  - introPixmap *Cfg* 4-7, *Cfg* 4-9
  - location *Cfg* 4-3
  - names *Cfg* 4-2
  - overriding colors *Cfg* 4-5
  - restricted resources *Cfg* 4-11
  - restricting resources to a screen *Cfg* 4-15
  - sample *Cfg* 4-20
  - syntax *Cfg* 4-2
- Restarting
  - Web application *Web* A-3
- Restrictions
  - JDB *JDB SQL* 1-3
- Return codes
  - call node functions *Rpts* 7-17
  - stored procedures *Program* 12-7
  - transaction event functions *AppDev* 32-3
- Return value *AppDev* 19-20, *Program* 2-60
  - declaring type in JPL *AppDev* 19-4, *Program* 2-49
- Reverse display attribute
  - setting *Editors* 11-7
- Revert menu option *Editors* 2-5
- Revision control *AppDev* 10-9
- rgb.txt *Cfg* 4-5
- Right justified text *Editors* 10-6
- ROLLBACK
  - dbms command
  - engine-specific behavior
    - rolling back transactions *AppDev* 28-10, *AppDev* 28-12
- Rollback
  - transaction in ISQL *JDB SQL* A-4
  - transaction in JDB *JDB SQL* 3-9
- Root property *Editors* 22-11
  - in reports *Rpts* 6-5
- Root table view
  - in the transaction manager *AppDev* 31-8
  - specifying *Editors* 22-11
  - specifying in report wizard *Editors* 5-13
- Rounding property *Editors* 10-22
- Row Entry Func property *Editors* 15-15
- Row Exit Func property *Editors* 15-15
- Row reports *Editors* 5-6
  - wrapping text overflow *Editors* 5-21
- Row Separators property *Editors* 15-10
- Row Titles property *AppDev* 31-13, *Editors* 15-9
- Rows
  - defined *JDB SQL* 2-4
  - determining number fetched *AppDev* 29-8, *Program* 12-15
  - fetching *Program* 11-20, *Program* 11-22
  - retrieving multiple rows *AppDev* 29-8
    - Web application *Web* 10-4
  - scrolling through result set *AppDev* 29-12
  - setting maximum number *AppDev* 36-6
  - value of @dmrowcount in DBMS START *Program* 11-49



- Rows property
    - for splitter widgets *Editors* 17-4
  - Rubberbanding *Editors* 9-2
  - RUN
    - dbms command
      - executing SQL statement that does not return data *Program* 11-47
  - Running reports
    - dynamic selection *Rpts* 9-19
    - from command line *Rpts* 9-8
    - from JPL *Program* 2-62
    - in report viewer *Rpts* 9-17
    - invocation options *Rpts* 9-9
    - setting invocation string *Rpts* 9-7
    - through C function *Rpts* 9-9
    - through JPL *Rpts* 9-8
    - with stand-alone utility *Rpts* A-3
  - runreport command *Rpts* 9-8
  - Runtime licensing
    - ActiveX controls *Editors* 18-4
  - Runtime path
    - setting *Cfg* 2-9
  - Runtime properties
    - accessing in JPL *AppDev* 19-40
    - definitions *QckRef* 1-4
    - for web applications *Web* 3-18
    - getting *Program* 5-428
    - setting *Program* 5-435
  - rw6toprl *Upgrade* 1-52
  - rwmetafile
    - generating reports in metafile format *Rpts* 9-12
  - rwrn
    - running reports *Rpts* 9-8, *Rpts* A-3
- S**
- s2asc *AppDev* A-40
  - Sample application
    - Enterprise Bank *JetNet* C-1
    - Sample applications *Install* 5-9, *Install* 8-15
      - ActiveX controls *COM/MTS* B-2
      - COM components *COM/MTS* B-1
      - framesets *Editors* 17-16
      - Java *AppDev* 21-23
      - Panther Gallery
        - web *Install* 5-9, *Install* 8-15, *Web* E-1
    - Samples
      - two-tier application
        - VideoBiz *AppDev* B-1
        - using Java in Panther *AppDev* C-1
    - SAVE
      - transaction manager command
        - saving database changes *AppDev* 32-9, *Program* 8-52
    - Save command *GetStart-2Tier* 5-6, *GetStart-JN* 9-6
    - Save Pref menu option *Editors* 2-5
    - Saving
      - application components (screens, reports, service components) *AppDev* E-16
      - COM components *Editors* 7-11, *COM/MTS* 3-16
      - EJBs *WebSphere* 5-22
      - repository entry *AppDev* E-24
      - service components *Editors* 7-1
    - SB\_OPTIONS *Cfg* 2-25
    - Scale property
      - defined in database *AppDev* 11-7
      - graph widget axes *Editors* 13-19
    - Scale widget *Editors* 2-22, *Editors* 14-19
      - event handler in Java *AppDev* 21-12
      - setting initial value *Editors* 14-20
    - Scan line *Cfg* 7-23
    - SCCS support *AppDev* 10-1
    - Schema
      - defined *JDB SQL* 2-1
    - Scheme
      - defined *Editors* 11-2
      - defining in configuration map file *AppDev* 45-30

- object names for color mapping *AppDev* 45-32
- specifying on Color palette *Editors* 11-5
- using Motif resource file *Editors* 11-2
- using Windows control panel *Editors* 11-2
- SCP keyword (video file) *Cfg* 7-28
- SCR\_KEY\_OPT *Cfg* 2-24
- Screen
  - 3D (in Windows) *Editors* 10-23
  - about *AppDev* 13-1
  - adding objects from repository *Editors* 6-4
  - as a dialog box *AppDev* 13-2
  - ASCII/binary conversion *AppDev* A-11
  - border *Editors* 6-22
  - C data structure conversion *AppDev* A-2
  - calls to JPL from *AppDev* 19-21
  - changing window through keyboard *Program* 3-7
  - clock update and *Editors* 10-18
  - closing *AppDev* 13-7, *AppDev* 38-8, *Program* 3-2, *Program* 3-4, *Program* 5-110, *Program* 5-246
  - control string *AppDev* 18-2
  - creating *AppDev* E-4, *Editors* 6-2
    - screen templates *AppDev* 11-5
  - decoration *Editors* 2-24
  - deleting under source control *AppDev* 10-11
  - display defaults *AppDev* 13-4
    - overriding *AppDev* 13-5
  - displaying *Program* 5-77
  - documenting *Editors* 6-29
  - embedding ActiveX controls *Editors* 18-2
  - entry processing *AppDev* 17-4
  - event handler in Java *AppDev* 21-5
  - events *AppDev* 17-2
    - entry *AppDev* 17-4
    - exit *AppDev* 17-19
    - exposure *AppDev* 17-6
  - font property *Editors* 10-8
  - forcing validation *Program* 5-457
  - forcing write from LDB *Program* 5-306
  - freeing saved data *Program* 5-491
  - functions *AppDev* 44-10
  - hexadecimal conversion *AppDev* A-4
  - HTML generated from *Web* 8-1
  - HTML properties *Web* 8-2
  - HWND handle *Program* 5-152
  - iconifying *Editors* 6-7, *Editors* 6-8, *Editors* 6-9
  - identifying members of *AppDev* 23-3
  - JPL *AppDev* 19-14
  - JPL module *AppDev* 19-9
  - location *Editors* 6-11
  - manipulating without mouse *Editors* A-2
  - maximizing/minimizing *Editors* 6-7
  - memory-resident *AppDev* 42-9
    - adding to list *Program* 5-304
    - removing *Program* 5-553
  - memory-resident list
    - updating *Program* 5-196
  - menu
    - attaching *AppDev* 15-4
    - attaching as menu bar *Editors* 6-27
  - modal *Editors* 6-5
  - mouse cursor
    - specifying shape *Editors* 6-19
  - naming start up *AppDev* 42-7
  - navigating without mouse *Editors* A-1
  - opening *AppDev* 13-3
    - as a form *AppDev* 13-3, *AppDev* 24-2
    - as a sibling window *AppDev* 24-4
    - as a window *AppDev* 13-3, *AppDev* 24-3, *Program* 5-574
    - as form *Program* 5-250
    - as window *Program* 5-256
    - at cursor location *Program* 5-86
    - at specific size/dimension *AppDev* 13-5
    - from control string *AppDev* 18-3
    - search path *Program* 5-194
    - through dialog box *Program* 3-4
  - popup menu
    - attaching *AppDev* 15-4

- pre-loading into memory *Program* 5-304
  - printing *Program* 5-388
  - read-only *AppDev* 10-9
    - saving *AppDev* 10-10
  - refreshing *Program* 5-445
  - removing from save list *Program* 5-554
  - reserving *AppDev* 10-3
  - restoring saved data *Program* 5-449, *Program* 5-453
  - root table view
    - specifying *Editors* 22-11
  - save list
    - check for screen *Program* 5-244
  - saving
    - in memory *Program* 5-492
  - saving data *Program* 5-459, *Program* 5-490
  - setting next sibling window *Program* 5-474
  - setting properties *AppDev* 13-8
  - shrinking *Program* 5-479
  - sizing *Editors* 6-6
    - maintaining *Editors* 6-7
  - specifying in a URL *Web* 4-2
  - status line text *AppDev* 26-8
  - submitting to HTTP server *Web* 4-1
  - submitting to secure server *Web* 4-6
  - target window *Web* 8-14
  - testing *AppDev* 38-4
  - title bar *Editors* 6-24
  - translating coordinates to pixels *Program* 5-546
  - trimming *Program* 5-573
  - using Java methods *Program* 7-7
  - viewing in debugger *AppDev* 39-16
  - viewing names of *AppDev* E-5
  - viewport *AppDev* 13-4, *Editors* 6-6
  - virtual *Editors* 6-6
  - widget ID *Program* 5-152
- Screen editor
- accessing from within Panther *AppDev* 38-2
  - exiting *AppDev* 38-8
  - menu bar description *Editors* 2-4
  - setting defaults *Program* 5-485
  - starting *AppDev* E-2
  - toolbar *Editors* 2-3
- Screen entry *AppDev* 17-4, *GetStart-JN* 13-6
- executing screen's unnamed procedure *AppDev* 17-6
- Screen entry procedure *GetStart-2Tier* 9-6, *GetStart-2Tier* 10-3, *GetStart-JN* 14-3
- Screen events *AppDev* 17-2
- Screen exit *AppDev* 17-19
- Screen format
  - specifying in screen wizard *Editors* 4-4
- Screen function
  - data access, LDB vs. fields *Cfg* 2-28
  - execution options *Cfg* 2-29
  - return codes *AppDev* 44-12
  - standard arguments *AppDev* 44-11
- Screen functions *AppDev* 44-10
- Screen module *AppDev* 19-9
  - viewing in debugger *AppDev* 39-16
- Screen properties *AppDev* 13-7
  - in web applications *Web* 3-1
  - number of fields *AppDev* 13-8
  - number of groups *AppDev* 13-8
  - runtime *QckRef* 1-105
  - runtime only *AppDev* 13-8
  - set by screen wizard
    - service containers *Editors* B-5
    - three-tier client screens *Editors* B-4
    - two-tier screens *Editors* B-1
- Screen save list
  - adding screen *Program* 5-304
  - removing screen *Program* 5-553
- Screen title
  - displaying a *Editors* 6-23
  - specifying in screen wizard *Editors* 4-21
- Screen wizard *GetStart-2Tier* 4-1, *GetStart-JN* 7-1
  - and additional tables *GetStart-2Tier* 11-1, *GetStart-JN* 15-1
  - application model selection *Editors* 4-17

- description *AppDev* 1-15
- generated push buttons *GetStart-2Tier* 5-3, *GetStart-JN* 9-4
- layout selection *Editors* 4-15
- output for three-tier architecture *Editors* 4-25
- output for two-tier architecture *Editors* 4-23
- service definition *Editors* 4-19
- specifying service routine name in *GetStart-JN* 7-9
- starting *Editors* 4-1
- template screens
  - and the repository *Editors* 4-2
  - Web-friendly screens *Editors* 4-4
- Screens
  - character-mode attributes *Cfg* 5-2
  - creating *AppDev* 1-15
  - resources
    - Motif *Cfg* 4-15
  - setting number of lines *Cfg* 7-24
  - startup *Cfg* 2-29
  - widget hierarchy
    - Motif *Cfg* 4-14
- Scroll bars
  - on list box widget *Editors* 20-5
  - slider characters *Cfg* 7-47
- Scroll Increment property *Editors* 10-15
  - grid widgets *Editors* 15-9
  - synchronized group *Editors* 8-23
- Scroll indicators
  - setting position of *Cfg* 2-25
- Scrolling
  - specifying backward scrolling *AppDev* 29-12, *Program* 11-25, *Program* 11-26
  - specifying continuation file *Program* 11-50
- Scrolling array
  - alternative scroll driver *Upgrade* A-1
    - action codes *Upgrade* A-5
    - delete lines *Upgrade* A-5
    - get data *Upgrade* A-6
    - initialize *Upgrade* A-7
    - insert blank lines *Upgrade* A-5
    - installing *Upgrade* A-2, *Upgrade* A-7
    - put data *Upgrade* A-8
    - release *Upgrade* A-9
    - reserve space *Upgrade* A-7
    - reset *Upgrade* A-8
    - specifying *Editors* 8-25
    - struct parameter *Upgrade* A-3
  - circular *Editors* 10-15
  - creating *Editors* 10-15
  - indicator
    - in video file *Cfg* 7-46
    - placement *Cfg* 2-25
    - setting *Cfg* 2-24
  - input protection *Editors* 8-10
  - isolating *Editors* 8-24
  - scroll increment specification *Editors* 10-15
  - setup options *Cfg* 2-23, *Cfg* 2-25
  - synchronizing *Editors* 8-20
    - setting circular scrolling for *Editors* 8-23
    - setting scroll increment *Editors* 8-23
  - tab order *Editors* 8-17
- Scrolling property
  - arrays *Editors* 10-15
  - list box widget *Editors* 20-5
- Search conditions
  - in SQL statements *JDB SQL* 6-54
- Search path
  - screen *Program* 5-194
- Secure POST property *Web* 4-6
- Secure server
  - submitting screens to *Web* 4-6
- SELECT
  - transaction manager command
    - fetching data for update *Program* 8-57
- Select command *GetStart-2Tier* 5-5, *GetStart-JN* 9-5
- SELECT expression *GetStart-2Tier* 12-4, *GetStart-JN* 16-4
- Select on Entry property *Editors* 14-15
- Select Service property *AppDev* 33-5, *Get-*

- Start-JN* 11-7
- SELECT statement
  - aliasing columns to widgets *AppDev* 29-4
  - automatic mapping of column names *AppDev* 29-3
  - changing generated SQL *AppDev* 36-6
  - concatenating result row *AppDev* 29-19
  - construction *JDB SQL* 3-2
  - destination of *AppDev* 29-3, *AppDev* 29-19
    - aggregate functions *AppDev* 29-6
  - fetching binary columns *Program* 11-8
  - formatting result set *AppDev* 29-15, *Program* 11-35
  - freeing memory *Program* 5-26
  - generating SQL *AppDev* 36-3
    - appending text *Program* 5-46
    - changing select list *Program* 5-40
  - in INSERT statement *JDB SQL* 6-26
  - in JDB *JDB SQL* 6-44
  - no more rows status *Program* 12-15
  - NULL values and *JDB SQL* 6-35
  - number of rows fetched *Program* 12-15
  - scrolling through result set *AppDev* 29-8, *Program* 11-20, *Program* 11-50
  - select list *JDB SQL* 3-2
  - setting number of rows *Program* 5-72
  - setting number of rows per fetch *Program* 5-73
  - setting starting row *Program* 11-49
  - specifying multiple tables
    - in automated SQL generation *AppDev* 33-22
  - SQL generation from properties *AppDev* 33-7, *AppDev* 33-44
  - suppressing repeating values *AppDev* 29-18, *Program* 11-53
  - transaction manager
    - writing hook function *AppDev* 32-6
  - unique column values *AppDev* 29-18
  - writing results
    - to a file *AppDev* 29-19, *Program* 11-10
    - to a specific occurrence *AppDev* 29-8, *AppDev* 29-14, *Program* 11-37
    - to word-wrapped arrays *AppDev* 29-8
- Selecting
  - application component (screen, report, service component) *AppDev* E-15
  - widget *AppDev* E-15
- Selecting data
  - generating argument list *Program* 5-537, *Program* 5-538
- Selecting widgets
  - in character mode *Editors* 9-2
  - in grid widget *Editors* 15-3
  - rubberbanding *Editors* 9-2
  - using Widget List *Editors* 9-3
- Selection group
  - deselecting *AppDev* 23-11, *Program* 5-145
  - getting selection data *AppDev* 23-9
  - identifying members of *AppDev* 14-8
  - selecting *AppDev* 23-11, *Program* 5-470
  - testing for selection *AppDev* 23-9
  - Web application usage *Web* 3-10
- Selection groups
  - setting runtime properties *QckRef* 1-122
- Selection screen *Editors* 12-10, *GetStart-2Tier* 11-5, *GetStart-2Tier* 11-11, *GetStart-JN* 15-5, *GetStart-JN* 15-14
  - attaching *Editors* 12-12
  - creating *Editors* 12-10
  - displaying on entry *Editors* 12-12
  - properties set by screen wizard
    - three-tier architecture *Editors* B-7
    - two-tier architecture *Editors* B-3
  - specifying in screen wizard *Editors* 4-18
  - testing *GetStart-2Tier* 11-8, *GetStart-JN* 15-9
  - using with table lookup *Editors* 12-13
- Selection Screen property *Editors* 12-12
  - set by screen wizard *Editors* 4-25, *Editors* 4-28
- Selection service container *GetStart-JN* 15-1
  - creating *Editors* 12-12

- Selection widgets *Editors* 2-22
  - grouping *Editors* 20-11
    - and autotab behavior *Editors* 8-19
  - specifying number of selections *Editors* 20-14
- Self-joins
  - in automated SQL generation *AppDev* 33-24
  - in JDB *JDB SQL* 6-31
  - in the transaction manager *AppDev* 31-8
- Semaphores
  - setting parameters *JetNet* 2-14
- Send data *AppDev* 25-1
  - reading bundle data *AppDev* 25-4
  - saving Web application state *Web* 6-5
  - writing data to bundle *AppDev* 25-2
- send\_data procedure *GetStart-2Tier* 9-4
  - invoking by double-click event *GetStart-2Tier* 10-2, *GetStart-JN* 14-2
  - invoking from push button *GetStart-2Tier* 8-8, *GetStart-JN* 12-8
  - listStep *GetStart-JN* 13-4
- send\_ord.jsp *GetStart-2Tier* 12-18, *GetStart-JN* 16-20
- Sending data
  - appending bundle item *Program* 5-85
  - appending to bundle *Program* 5-82
  - counting bundle items *Program* 5-210, *Program* 5-211
  - destroying bundle *Program* 5-202
  - getting bundle name *Program* 5-212
  - initializing bundle *Program* 5-120
  - reading bundle data through JPL *Program* 2-54
  - reading occurrence from bundle *Program* 5-209
  - verifying bundle name *Program* 5-238
  - with C function *Program* 5-443, *Program* 5-471
  - writing data to bundle
    - in JPL *Program* 2-64
- Separator menu items *Editors* 25-11
  - styles *Editors* 25-13
- Separator property
  - menu item *Editors* 25-10
- Sequential link
  - in data fetches *AppDev* 36-5
  - setting the link type *AppDev* 31-9
- sequential link *AppDev* 31-9
- Sequential link type *Editors* 22-14
  - in automated SQL generation *AppDev* 33-26
  - join specification *AppDev* 33-23, *Editors* 22-17
- Serial column
  - @dmserial *Program* 12-17
- Server
  - activating *GetStart-JN* 2-6
  - activating and deactivating *JetNet* 4-4
  - adding and removing instances *JetNet* 4-6
  - adding to application configuration *JetNet* 3-6
  - balance load distribution among *JetNet* 3-11
  - configuring *GetStart-JN* 2-1
  - connecting to database *JetNet* 3-26
  - development access *GetStart-JN* 2-5
  - enabling to request services *JetNet* 3-23
  - error output to stderr *JetNet* 4-10
  - HTTP *GetStart-2Tier* 2-1
  - initialization routine *JetNet* 3-26
  - initializing *JetNet* 8-17
  - instantiations of *GetStart-JN* 2-3, *GetStart-JN* 2-5
  - maximum allowed in application *JetNet* 3-11
  - maximum processes allowed in application *JetNet* 3-10
  - message forwarding *JetNet* 8-11
  - options *JetNet* 8-17
  - removing from application configuration *JetNet* 3-6
  - restart frequency *JetNet* 3-21
  - setting advertised services *JetNet* 3-23
  - shutdown *GetStart-JN* 1-13, *GetStart-JN* 1-26
  - standard *GetStart-JN* 2-2
  - types *JetNet* 3-20
  - unable to activate *GetStart-JN* B-2

- Web application *GetStart-2Tier* 2-1, *GetStart-JN* 5-1
- Server caching
  - BrowserData option *Web* 12-5
  - web applications *Web* 6-3
- Server configuration properties *JetNet* 3-19
- Server environment *GetStart-JN* 1-4, *GetStart-JN* 1-16
  - defining *GetStart-JN* 1-5, *GetStart-JN* 1-17
- Server environment file *JetNet* 2-3
  - format *JetNet* 2-5
  - required entries *JetNet* 2-6
  - specifying for server *JetNet* 3-14, *JetNet* 3-21
- Server Environment Variable File property *JetNet* 3-14, *JetNet* 3-21
- Server events *JetNet* 6-1
- Server Executable option
  - for standard server *JetNet* 3-23
- Server Executable property
  - for conversion server *JetNet* 3-26
- Server executables *AppDev* 42-1
  - specifying for conversion server *JetNet* 3-26
  - specifying for standard server *JetNet* 3-23
  - types *JetNet* 2-2
- Server initialization
  - example in Enterprise Bank *JetNet* C-28
- Server instances
  - adding and removing *JetNet* 4-6
  - initial number *JetNet* 3-20
- Server library *AppDev* 1-13
  - creating via *clnt2svr* *JetNet* B-1
- Server link
  - setting the link type *AppDev* 31-9
- server link *AppDev* 31-9
- Server link type *Editors* 22-15
  - join relationship *AppDev* 33-23, *Editors* 22-18
  - synchronized scrolling *Editors* 8-20
- Server Restart Frequency property *JetNet* 3-21
- Server Type property *JetNet* 3-20
- server view *AppDev* 31-9
- Server View properties
  - widgets *Editors* 2-32
- Server views
  - traversal properties *AppDev* 36-21
- Server\_exit event *JetNet* 6-23
  - built-in handlers *JetNet* 6-24
  - handler contract *JetNet* 6-24
- Service
  - aborting *JetNet* 6-25
  - adding to service group *JetNet* 5-14
  - advertising *GetStart-JN* 4-5, *GetStart-JN* 8-6
    - in *JetNet/Tuxedo Program* 2-2
  - built-in *JetNet* 7-1
    - limitations *JetNet* 7-2
  - cache service container options *Editors* 24-10
  - call options *Editors* 24-11
  - components of *JetNet* 5-2
  - controlling behavior of *Editors* 24-8
  - creating *GetStart-JN* 8-4, *JetNet* 5-5
  - debugging *AppDev* 39-2
  - defining *GetStart-JN* 4-3
  - defining in JIF *Editors* 24-5, *JetNet* 5-4
  - deleting in JIF *Editors* 24-12
  - in transaction model *JetNet* 7-1
  - initiating *JetNet* 5-8, *JetNet* 5-12
  - reply options *Editors* 24-10
  - returning from
    - in *JetNet/Tuxedo Program* 2-79
  - transaction type options *Editors* 24-9
  - transport methods in JIF editor *Editors* 24-8
  - updating in JIF *Editors* 24-5
- Service code
  - generating for Windows and Motif *Editors* 24-21
- Service component
  - associated with service *Editors* 24-7
- Service components
  - ASCII/binary conversion *AppDev* A-11

- building *AppDev* 1-7
- creating *AppDev* 12-1, *AppDev* E-4, *Editors* 7-1, *Editors* 7-2
  - EJBs *WebSphere* 5-2, *WebSphere* 7-3
  - for COM *COM/MTS* 3-1, *COM/MTS* 4-1
- defining component interface
  - for COM *COM/MTS* 3-3
  - for EJBs *WebSphere* 5-3
- defining methods
  - for COM *COM/MTS* 3-3
  - for EJBs *WebSphere* 5-4
- defining properties
  - for COM *COM/MTS* 3-7
  - for EJBs *WebSphere* 5-9
- deploying
  - using COM *COM/MTS* 5-3
- destroying
  - EJBs *WebSphere* 7-4
  - in COM/MTS *COM/MTS* 4-2
- for EJBs *AppDev* 12-5
- in JetNet *AppDev* 12-1
- in MTS *AppDev* 12-8
- in TUXEDO *AppDev* 12-1
- JetNet/TUXEDO *Editors* 7-15
- making component DLLs
  - from the command line *COM/MTS* A-2
- making EJBs
  - from the command line *WebSphere* A-2
- receiving method's parameters *Program* 2-59
- returning method's parameters *Program* 2-61
- runtime properties *QckRef* 1-109
- saving *Editors* 7-1
- sending error to client *Program* 2-53
- Service container *JetNet* 5-3
  - and JPL *JetNet* 5-12
  - appearance of *GetStart-JN* 7-14
  - creating *JetNet* 5-5
  - creating via *clnt2svr* *JetNet* B-1
  - debugging *AppDev* 39-2
  - editing *GetStart-JN* 10-8, *JetNet* 5-7
- Service containers
  - caching for conversion server *JetNet* 3-27
- Service definition
  - in screen wizard *Editors* 4-19
- Service definition code
  - written to clipboard *Editors* 24-23
  - written to file *Editors* 24-23
- Service group *JetNet* 5-13
  - adding service to *JetNet* 5-14
  - advertising
    - in JetNet/Tuxedo *Program* 2-2
  - defining in JIF *Editors* 24-12
  - deleting in JIF *Editors* 24-14
  - updating in JIF *Editors* 24-12
- Service messages
  - argument types *JetNet* 5-15
  - broadcasting
    - in JetNet/Tuxedo *Program* 2-5
  - default mapping of output data *JetNet* 5-16
  - defining argument types *JetNet* 5-19
  - dequeuing from reliable queue
    - in Tuxedo *Program* 2-18
  - enqueueing on reliable queue
    - in Tuxedo *Program* 2-22
  - FML arguments *JetNet* 5-17
  - forwarding *JetNet* 8-5
    - in JetNet/Tuxedo *Program* 2-77
  - listing buffer fields *JetNet* 5-16
  - NULL arguments *JetNet* 5-17
  - sending from server to client
    - in JetNet/Tuxedo *Program* 2-43
  - STRING arguments *JetNet* 5-18
  - unloading data from
    - in JetNet/Tuxedo *Program* 2-92
- Service name *GetStart-JN* 4-4, *GetStart-JN* 8-4, *GetStart-JN* 11-7
  - default conventions for *Editors* 4-20
  - editing in screen wizard *Editors* 4-20
- Service operations *GetStart-JN* 7-9
- Service properties *GetStart-JN* 11-7, *JetNet* 5-5
  - link widgets *AppDev* 33-47, *Editors* 22-16



- set by screen wizard
  - link widgets *Editors* B-6
  - table view widgets *Editors* B-6
- table view *AppDev* 33-5, *Editors* 22-7
- widgets *Editors* 2-32
- Service queue *JetNet* 8-14
  - creating in JIF *Editors* 24-17
- Service request
  - cancelling
    - in JetNet/Tuxedo *Program* 2-75
  - event stream *Program* 2-69
  - finding the transaction manager operation *AppDev* 36-26
  - forwarding *JetNet* 8-5
    - in JetNet/Tuxedo *Program* 2-77
  - getting Tuxedo callid *Program* 5-542
  - initiating
    - in JetNet/Tuxedo *Program* 2-66
  - receiving arguments from client
    - in JetNet/Tuxedo *Program* 2-54
  - returning from
    - in JetNet/Tuxedo *Program* 2-79
  - setting priority *Program* 2-68
  - via request broker *AppDev* 9-2
  - waiting for completion
    - in JetNet/Tuxedo *Program* 2-97
- Service request code
  - written to clipboard *Editors* 24-23
  - written to file *Editors* 24-23
- Service routine *JetNet* 5-2, *JetNet* 5-9
- Service template
  - format for *Editors* 24-23
- Services
  - advertising automatically *JetNet* 3-23
  - getting service alias *Program* 5-541
  - inserting data *Program* 5-536
  - maximum allowed advertised in application
    - JetNet* 3-11
  - selecting data *Program* 5-537, *Program* 5-538
- SET clause
  - in automated SQL generation *AppDev* 33-37
- Set Valid property *AppDev* 33-12
- Setting field
  - in properties window *Editors* 2-28
- Setup
  - on UNIX *Install* 7-3
- Setup errors *GetStart-JN* B-2
- Setup file
  - converting to binary (var2bin) *Cfg* 8-5
  - creating *Cfg* 2-2
  - modifying *Cfg* 2-2
  - sample *Cfg* 2-31
  - specifying *Cfg* 2-12, *Cfg* 2-13
  - syntax *Cfg* 2-3
  - types of *Cfg* 2-2
- Setup variables
  - defining *Cfg* 2-5
  - for menus *Cfg* 5-3
  - setting at runtime
    - Application behavior
      - setting at runtime *Program* 5-416
- setup.sh
  - copying *GetStart-2Tier* 1-3, *GetStart-JN* 1-3
  - editing *GetStart-2Tier* 1-3, *GetStart-JN* 1-3
- Seven-bit character set *Cfg* 7-7
- Severity
  - of exception events *JetNet* 6-13
- SGR keyword (video file) *Cfg* 7-38
  - parameters *Cfg* 7-38
- Shared memory
  - setting resources *JetNet* 2-15
- Shared Memory Protection property *JetNet* 3-12
- Shift Increment property *Editors* 10-16
- Shift indicators
  - setting position of *Cfg* 2-25
- Shifted function keys (SPF1-SPF24)
  - hex value *Cfg* 6-10
- Shifting field *Editors* 10-16
  - and input protection *Editors* 8-10
  - horizontal scroll bar *Editors* 10-16
  - setting indicator *Cfg* 2-24
  - setting indicator placement *Cfg* 2-25

- setup options *Cfg* 2-23
- shift increment specification *Editors* 10-16
- specifying indicators for *Cfg* 7-46
- Sibling property *AppDev* 24-4
- Sibling window
  - changing focus *Program* 5-578
  - setting for next window *AppDev* 24-4
  - setting next opened window *Program* 5-474
- Sign property
  - for decimal specification *Editors* 8-6
- Single line text widget *Editors* 2-20
  - and autotab behavior *Editors* 8-19
  - assigning double-click event to *Editors* 8-11
  - event handler in Java *AppDev* 21-13
- Size to Contents property *Editors* 9-7, *GetStart-2Tier* 8-5, *GetStart-JN* 12-4
  - in web applications *Web* 3-7
- Slice events
  - in transaction manager *AppDev* 35-3
- Slider characters
  - for scroll bars *Cfg* 7-47
- SM\_CALC\_DATE
  - setting default format *AppDev* 45-19
- SM\_DECIMAL
  - setting default *AppDev* 45-23
- sm\_tp\_advertise\_cond\_winopen *JetNet* 6-10
- sm\_tp\_advertise\_ignore *JetNet* 6-10
- sm\_tp\_advertise\_log *JetNet* 6-10
- sm\_tp\_advertise\_winopen *JetNet* 6-10
- sm\_tp\_exception\_no\_change *JetNet* 6-15
- sm\_tp\_exception\_print\_all *JetNet* 6-15
- sm\_tp\_exception\_print\_warning *JetNet* 6-15
- sm\_tp\_exception\_promote\_error *JetNet* 6-15
- sm\_tp\_jif\_changed\_ignore *JetNet* 6-17
- sm\_tp\_jif\_changed\_read *JetNet* 6-17
- sm\_tp\_message\_ignore *JetNet* 6-20
- sm\_tp\_message\_print\_string *JetNet* 6-20
- sm\_tp\_post\_request\_ignore *JetNet* 6-21
- sm\_tp\_post\_service\_ignore *JetNet* 6-28
- sm\_tp\_post\_service\_winclose *JetNet* 6-28
- sm\_tp\_post\_service\_windeselect *JetNet* 6-28
- sm\_tp\_pre\_request\_ignore *JetNet* 6-21
- sm\_tp\_pre\_service\_ignore *JetNet* 6-28
- sm\_tp\_pre\_service\_winopen *JetNet* 6-28
- sm\_tp\_pre\_service\_winopen\_or\_select *JetNet* 6-28
- sm\_tp\_pre\_service\_wiselect *JetNet* 6-28
- sm\_tp\_request\_received\_ignore *JetNet* 6-23
- sm\_tp\_request\_received\_jif\_check *JetNet* 6-23
- sm\_tp\_server\_exit\_ignore *JetNet* 6-24
- sm\_tp\_server\_exit\_log\_down *JetNet* 6-24
- sm\_tp\_unadvertise\_cond\_winclose *JetNet* 6-10
- sm\_tp\_unadvertise\_ignore *JetNet* 6-10
- sm\_tp\_unadvertise\_log *JetNet* 6-10
- sm\_tp\_unadvertise\_winclose *JetNet* 6-10
- sm\_tp\_unload\_call\_origin *JetNet* 6-31
- sm\_tp\_unload\_immediate *JetNet* 6-31
- SMBASE *Install* 5-5, *Install* 6-3, *Install* 7-2, *Install* 8-7
  - defining for client *GetStart-2Tier* 1-1
  - setting *Cfg* 2-4
- SMCOLMAP *Cfg* 2-6
- SMDICNAME *GetStart-2Tier* 3-3, *GetStart-2Tier* 4-2, *GetStart-JN* 6-5, *GetStart-JN* 7-2
  - defined *Cfg* 2-6

- SMEDITOR *Cfg* 2-6
  - editing SQL statements *JDB SQL* 4-6
- SMFEXTENSION *Cfg* 2-7
- SMFLIBS *GetStart-2Tier* 1-1, *Install* 5-4, *Install* 5-5, *Install* 8-7, *Install* 8-12
  - defined *Cfg* 2-7
- SMIBMVJAVA *Cfg* 2-7
- SMIBMWSADMIN *Cfg* 2-7
- SMINICTRL *Cfg* 2-19
- SMINITJPL *Install* 5-5, *Install* 8-7
  - defined *Cfg* 2-8
- SMJAVACOMPILE *Cfg* 2-8
- SMJAVAEDITOR *Cfg* 2-8
- SMJAVAFACTORY *Cfg* 2-8
- SMJVALIBRARY *WebSphere* 8-3
  - defined *Cfg* 2-8
- SMJVMOPT *WebSphere* 2-15, *WebSphere* 8-3
  - defined *Cfg* 2-8
- SMKEY *Cfg* 2-8, *Cfg* 6-15
- smkeys.h
  - contents of *Cfg* 6-2, *Cfg* 6-7
- SMLDBLIBNAME *Cfg* 2-9
- SMLDBNAME *Cfg* 2-9
- SMLPRINT *Cfg* 5-5
- smmach.h *AppDev* 48-1
- SMMSGS *Install* 5-5, *Install* 8-7
  - defined *Cfg* 2-9
  - setting alternate value *AppDev* 45-18, *AppDev* 45-24
- SMPATH *Install* 5-5, *Install* 8-7
  - defined *Cfg* 2-9
- SMPROVIDERURL *WebSphere* 2-15
  - defined *Cfg* 2-10
- SMRBCONFIG *Cfg* 2-10
- SMRBHOST *JetNet* 2-9
  - defined *Cfg* 2-11
- SMRBPORNT *JetNet* 2-9
  - defined *Cfg* 2-11
- SMSETUP *Cfg* 2-12
- SMSGBKATT *Cfg* 2-21
- SMSGPOS *Cfg* 2-21
- SMTERM *GetStart-2Tier* 1-3, *GetStart-JN* 1-3, *Install* 8-12
  - defined *Cfg* 2-12
- SMTCLIENT *Cfg* 2-12, *Install* 5-5, *Install* 8-7
- SMTCLIPFILE *Cfg* 2-12
- SMTIPINIT *Install* 5-5, *Install* 8-7
  - defined *Cfg* 2-12
- SMTPIJIF *Install* 5-5, *Install* 8-7
  - defined *Cfg* 2-12, *Cfg* 2-13
- SMTRACE *Cfg* 2-13
- SMUSER *Cfg* 2-13
- SMVARS *Install* 5-5, *Install* 8-7
  - defined *Cfg* 2-13
- SMVIDEO *Cfg* 2-14
- SMVIEWER *Cfg* 2-14
- smwizard screen *Editors* 3-4
- smwizis screen *Editors* 3-4
- smwizrw screen *Editors* 3-4
- smwizsrv screen *Editors* 3-4
- smwizweb screen *Editors* 3-4
- smwzmenu *Editors* 3-4
- Snap to grid *Editors* 9-15
  - using *Editors* 9-16
- SOME keyword
  - in *JDB JDB SQL* 6-49
- Sort Order *AppDev* 17-17
- Sort Order Func *AppDev* 17-17
- Sort Order Function property *Editors* 15-12
- Sort Order property *Editors* 8-25, *Editors* 15-11
- Sort Widgets property
  - in automated SQL generation *AppDev* 33-21
  - table view *Editors* 22-6
- Sound
  - associating file with widget *Web* 8-30
  - including in Web application *Web* 8-29
- Source code
  - main routines
    - modifying *AppDev* 42-6

- platform-dependent *AppDev* 48-1
- Source Code menu option
  - in debugger *AppDev* 39-4
- Source control management
  - accessing screen outside of *AppDev* 10-3
  - deleting screens under *AppDev* 10-11
  - features of *AppDev* 10-7
  - in the editor *AppDev* 10-7, *AppDev* 10-8
  - setting up *AppDev* 10-5
  - synchronizing library *AppDev* A-17
- Source Mgmt
  - Source code management *Editors* 2-5
- Space bar *Cfg* 6-10
- Space command *Editors* 9-16
- Spacing property
  - vertical arrays *Editors* 10-14
- Spacing widgets
  - custom *Editors* 9-17
- Splash screen *AppDev* 43-8
  - Motif *Cfg* 4-7, *Cfg* 4-9
  - Windows *Cfg* 3-5
- Splitter widget *Editors* 17-1
  - horizontal splitter *Editors* 2-27, *Editors* 17-2
  - properties in web applications *Editors* 17-14
  - runtime properties *Editors* 17-12
  - two-way splitter *Editors* 2-27, *Editors* 17-3
  - vertical splitter *Editors* 2-27, *Editors* 17-2
- Splitters
  - setting runtime properties *QckRef* 1-119
- Spooling output
  - Print Setup dialog options *Rpts* 9-6
  - report invocation option *Rpts* 9-13
- SPXATT keyword (video file) *Cfg* 7-39
- SQL
  - automated *AppDev* 33-1
    - setting properties for *AppDev* 33-4, *Editors* 22-8
  - commands
    - in JDB *JDB SQL* 6-1
  - constructing SQL statements *AppDev* 28-1, *JDB SQL* 3-1
  - dbms command
    - executing SQL statement (not recommended) *Program* 11-48
  - declaring cursors for *AppDev* 28-4
  - executing in JISQL *JDB SQL* 3-10
  - executing in JPL *JDB SQL* 3-10
  - executing SQL statements
    - on named cursor *Program* 11-33
  - generating *Program* 5-19
  - modifying automated SQL *AppDev* 32-1, *AppDev* 33-31
  - recreating JDB database *JDB SQL* A-6
  - sending to database *AppDev* 27-2
  - syntax summary for JDB *JDB SQL* 6-58
  - viewing generated SQL *AppDev* 36-2
  - viewing generated statements *AppDev* 33-43
- SQL generation *AppDev* 33-1, *GetStart-JN* 16-10
  - appending text *Program* 5-46
  - calling in C *Program* 5-19
  - changing bind values *Program* 5-27
  - changing FROM clause *Program* 5-32
  - changing GROUP BY clause *Program* 5-35
  - changing HAVING clause *Program* 5-37
  - changing ORDER BY clause *Program* 5-43
  - changing select list *Program* 5-40
  - changing WHERE clause *Program* 5-48
  - generating SELECT statement *Program* 5-53
  - modifying automated SQL *AppDev* 33-31
- SSL (Secure Sockets Layer) *Web* 4-6
- Standard arguments *AppDev* 44-3
  - client authentication connection function *AppDev* 44-28
  - client authentication post-connection function *AppDev* 44-30
  - control function *AppDev* 44-44
  - error function *AppDev* 44-38
  - field function *AppDev* 44-15
  - grid function *AppDev* 44-21
  - group function *AppDev* 44-26
  - initialization function *AppDev* 44-42
  - key change function *AppDev* 44-37

- passing into unnamed procedure *AppDev* 19-3
- playback function *AppDev* 44-43
- prototyped function
  - getting for *AppDev* 44-8
  - record function *AppDev* 44-43
  - reset function *AppDev* 44-42
  - screen function *AppDev* 44-11
  - tab control function *AppDev* 44-24
  - timeout function *AppDev* 44-33
  - timer function *AppDev* 44-35
  - types *AppDev* 19-21
  - video processing function *AppDev* 44-47
- Standard server *GetStart-JN* 2-2
  - properties of *GetStart-JN* 2-3
- START
  - dbms command
    - setting starting row *AppDev* 29-15, *Program* 11-49
  - transaction manager command
    - initiating transaction *Program* 8-62
- Start Angle property
  - graph widget
    - pie chart *Editors* 13-35
- Start Column property
  - grid position *Editors* 9-15
  - specifying widget position *Editors* 9-15
- Start Row property
  - grid position *Editors* 9-15
  - specifying widget position *Editors* 9-15
- Starting
  - Panther *Program* 5-255
  - Panther editor *AppDev* E-2
  - Web application *Web* A-3
- STARTSCREEN *Cfg* 2-29
- Startup file *AppDev* 43-8
- Start-up license *Install* 7-3
  - backup *Install* 8-4
- Startup property *Editors* 6-8
- Startup screen *AppDev* 42-7
- Startup state
  - for screens *Editors* 6-8
- Static label widget *Editors* 2-19, *Editors* 13-1
  - displaying active pixmap on *Editors* 21-10
  - resizing *Editors* 13-2
- Static output widgets
  - defined for reports *Rpts* 2-6
- Status
  - determining in debugger *AppDev* 39-4
- Status bar
  - deleting section *Program* 5-460
  - formatting *Program* 5-461
  - getting contents *Program* 5-462
  - inserting section *Program* 5-463
  - setting contents *Program* 5-466
- Status line
  - bell *Editors* 12-4
  - closing *Cfg* 7-39
  - cursor position display *Cfg* 7-48, *Program* 5-102
  - default message *Program* 2-37
    - overriding *AppDev* 26-8, *Program* 2-37, *Program* 5-121
  - display attributes *Cfg* 7-39
  - displaying in web applications *Web* 9-3, *Web* 9-7
  - flushing *Program* 5-308
  - force user to acknowledge *Cfg* 2-23
  - formStatus resource *Cfg* 4-8
  - in screen editor *Editors* 2-3
  - keywords for video *Cfg* 7-39
  - location
    - setting in Motif *Cfg* 4-8
  - message *Program* 5-360
  - message functions *AppDev* 26-4
  - message priority *AppDev* 26-7
  - message types *AppDev* 26-7
  - opening *Cfg* 7-39
  - setting
    - display attributes *Cfg* 2-20
    - position *Cfg* 2-21
    - text attributes *Cfg* 2-21
    - setting text *Program* 5-473

- setup variables *Cfg* 2-20
- terminal portability *AppDev* 48-2
- text
  - background *AppDev* 26-9
  - displaying *Editors* 12-2
  - for screen *AppDev* 26-8
  - for widget *AppDev* 26-8
  - menu item *Editors* 25-10
- text not visible *Cfg* 2-21
- toggling status *Program* 5-475
- Status line function *AppDev* 44-45
  - cursor position display *Program* 5-102
  - example *AppDev* 44-96
  - return codes *AppDev* 44-46
- Status Line Text property *Web* 9-7
  - in web applications *Web* 3-8
- Status Text property
  - menu item *Editors* 25-10
- Status window
  - in JetNet manager *JetNet* 4-10
- STEXTATT *Cfg* 2-21
- Stopping
  - Web application *Web* A-3
- STORE
  - dbms command
    - setting continuation file *AppDev* 29-12, *Program* 11-50
- Stored procedures
  - return codes *Program* 12-7
- String
  - getting length *AppDev* 19-51
  - reading from file *Program* 5-181
  - writing to file *Program* 5-188
- STRING data transport buffer *JetNet* 8-3
- String expression
  - JPL *AppDev* 19-53
- STRING message arguments *JetNet* 5-18
- Stripe Current Row property *Editors* 15-10, *Web* 3-12
- Style property
  - graph widget data series *Editors* 13-26
  - graph widget tick marks *Editors* 13-20
  - list box border *Editors* 20-4
  - wallpaper *Editors* 6-18
- Style Source property
  - graph widget
    - pie chart *Editors* 13-37
- Styles *GetStart-2Tier* 5-4, *GetStart-JN* 9-5
  - description *GetStart-2Tier* 2-10, *GetStart-JN* C-10
  - disabling *Program* 5-17
  - enabling *Program* 5-18
- Styles editor *Editors* 23-1
  - invoking *Editors* 23-1
- styles.sty
  - saving *Editors* 23-13
- Stylesheet Data property *Web* 8-19
- Stylesheet Link property *Web* 8-19
- Stylesheet Source property *Web* 8-3, *Web* 8-19
- Stylesheet Type property *Web* 8-19
- Stylesheets
  - setting for Web applications *Web* 8-19
- Subdetail specification
  - in screen wizard *Editors* 4-15
- Submenu
  - attaching to menu item *Editors* 25-10, *Editors* 25-12
  - creating *Editors* 25-4
  - indicator *Cfg* 7-48
  - naming *Editors* 25-10
  - nesting *Editors* 25-4
- Submenu property
  - menu item *Editors* 25-10
- Submitting screens
  - getting name of screen *Web* 6-3
- Subqueries
  - database *JDB SQL* 6-48
- Subreports
  - controlling output *Rpts* 5-4
  - Indent property *Rpts* 5-4
  - invoking *Rpts* 5-3
  - Keep on Page property *Rpts* 5-4

- Reserve Space property *Rpts* 5-4
  - Use Caller Format property *Rpts* 5-6
  - Use Caller Groups property *Rpts* 5-5
  - using caller settings *Rpts* 5-5
  - Substring specifier *AppDev* 19-50
  - colon variables *AppDev* 19-29
  - Subtitle property
    - graph widget *Editors* 13-10
  - Subtraction operation
    - in JDB *JDB SQL* 6-37
  - Suffix Markup property *Web* 8-4, *Web* 8-20
  - SUM function
    - in JDB *JDB SQL* 6-4
  - Summary-only report
    - creating with report wizard *Editors* 5-19
  - Support routine
    - Database drivers *AppDev* 7-1
    - database engines *AppDev* 7-4
  - Sybase
    - error messages *Install* G-6
  - Synchronization property *AppDev* 36-9, *Editors* 8-21
  - Synchronized arrays *Editors* 8-20
    - creating *Editors* 8-22
    - defining number of occurrences *Editors* 8-23
    - finding next *Program* 5-390
    - identifying members of *Editors* 8-23
    - isolating *Editors* 8-24
    - modifying *Editors* 8-22
    - setting circular scrolling behavior *Editors* 8-23
    - setting runtime properties *QckRef* 1-123
    - setting scroll increment *Editors* 8-23
    - specifying onscreen size of *Editors* 8-23
    - updating group of *Editors* 8-24
  - Synchronous service call *Program* 2-69
  - Syntax summary
    - JDB *JDB SQL* 6-58
  - system
    - executing operating system command in ISQL *JDB SQL* A-4
  - System decimal
    - defining symbol *AppDev* 45-23
    - interpreting *AppDev* 45-45
  - System menu
    - displaying on screen border *Editors* 6-25
  - System Menu property *Editors* 6-25
  - System tables
    - in JDB *JDB SQL* 4-3
  - System Update property *Editors* 10-18
- T**
- TAB
    - calling in C function *Program* 5-494
  - Tab Card widget *Editors* 2-25, *Editors* 16-1
    - event handler in Java *AppDev* 21-12
  - Tab control function *AppDev* 44-24
    - standard arguments *AppDev* 44-24
  - Tab Controls *Editors* 16-1
    - using *Editors* 16-4
  - Tab controls
    - about *AppDev* 23-12
    - getting the number of cards *AppDev* 23-12
    - setting the card sequence *AppDev* 23-12
    - setting the topmost card *AppDev* 23-12
  - Tab Deck widget *Editors* 2-25, *Editors* 16-1
  - Tab dialog screen *Editors* 16-5
  - Tab Entry Function property *Editors* 16-9
  - Tab Exit Function property *Editors* 16-9
  - TAB key
    - acting like XMIT *Cfg* 2-30
  - Tab order
    - and cursor positioning keys *Editors* 8-13
    - changing *Editors* 8-13, *Editors* 8-16
    - default *Editors* 8-13
    - hidden widgets and *Editors* 10-4
    - specifying *Editors* 8-12
  - Table Lookup property *Editors* 12-14
  - Table of contents
    - of library *AppDev* E-5, *Editors* 2-8
    - of repository *Editors* 2-8, *Editors* 6-4, *Get-*

- Start-2Tier* 3-6, *GetStart-JN* 6-9
- Table property *AppDev* E-29
  - table view *Editors* 22-4
    - in automated SQL generation *AppDev* 33-14
- Table view widget *GetStart-2Tier* 9-14, *GetStart-JN* 11-5, *GetStart-JN* 13-16
- Table views *AppDev* 31-7, *Editors* 22-1
  - accessing properties for *Editors* 22-2
  - adding a virtual column *AppDev* 31-11
  - adding members to *AppDev* 31-11, *Editors* 22-10
  - adding widget to *GetStart-2Tier* 12-7, *GetStart-JN* 16-9
  - before image data *Program* 5-213
  - connecting to database *Editors* 22-9
  - creating *Editors* 22-9
  - determining relationships *Editors* 4-9
  - displaying members *Editors* 22-10
  - getting correlation name (alias) *Program* 5-52
  - identifying as root *AppDev* 31-8, *Editors* 22-11
  - identifying database table *AppDev* E-29
  - limiting through commands *AppDev* 34-5
  - linking two *Editors* 22-16
  - properties for SQL generation *AppDev* 33-2, *AppDev* 33-4, *AppDev* 33-14, *Editors* 22-8
  - selecting *Editors* 22-2
  - selecting members of *GetStart-2Tier* 12-5, *GetStart-JN* 16-6
  - setting child table view *AppDev* 31-8
  - setting parent table view *AppDev* 31-8
  - specifying additional in screen wizard *Editors* 4-9
    - attaching selection screen *Editors* 4-18
  - specifying master in screen wizard *Editors* 4-6
  - synchronized scrolling *Editors* 8-20
  - traversal properties *AppDev* 36-21
  - viewing properties *AppDev* 31-8
- Tables
  - creating
    - in JDB *JDB SQL* 6-11
    - in JISQL *JDB SQL* 5-5
  - defined *JDB SQL* 2-2
  - defining keys
    - using JISQL *JDB SQL* 5-8
  - describing in JISQL *JDB SQL* 5-16
  - dropping
    - in JDB *JDB SQL* 6-20
    - using JISQL *JDB SQL* 5-17
  - exporting
    - to text files *JDB SQL* A-7
  - importing
    - from text files *JDB SQL* A-7
  - in automated SQL generation *AppDev* 33-2, *AppDev* 33-14, *AppDev* 33-36
  - joining multiple *AppDev* 33-22, *JDB SQL* 3-7, *JDB SQL* 6-27
  - naming conventions *JDB SQL* 2-6
    - in JDB *JDB SQL* 4-2
  - selecting data *JDB SQL* 6-44
  - setting correlation names *JDB SQL* 3-8
  - storing in repository *AppDev* 11-5
  - system tables
    - in JDB *JDB SQL* 4-3
- Target Default property *Web* 8-14
- Target property *Web* 8-14
- Target string *AppDev* 18-6
- Target window
  - for a screen *Web* 8-14
  - for hyperlinks *Web* 8-14
- tbldata
  - importing/exporting JDB database *JDB SQL* A-7
- Tear-off menu *Editors* 25-6
- Tear-Off property
  - Tear-Off property menus *Editors* 25-6
- Template
  - generating JPL



- for COM components *COM/MTS* 3-7
  - for EJBs *WebSphere* 5-8
- HTML *Web* 8-4
  - conditional processing *Web* 8-7
  - passing database values *Web* 8-8
  - submitting a form *Web* 8-10
  - template tags *Web* 8-5
- updating DLL
  - for COM components *COM/MTS* C-4
- TERM *Cfg* 2-12
- term2vid *Cfg* 7-16, *Cfg* 7-18
- termcap *Cfg* 7-3
- Terminal
  - assigning timing interval *Cfg* 7-24
  - attributes *Cfg* 7-29
  - bell *Editors* 12-4
    - in message *Cfg* 2-23, *AppDev* 45-10
  - changing display size *Program* 5-447
  - flushing buffer *Program* 5-191
  - flushing delayed write *Program* 2-26
  - initializing *Cfg* 7-23, *Program* 5-228
  - mapping input to output *Cfg* 7-41
  - output *Upgrade* B-6
  - portability *AppDev* 48-2, *Upgrade* B-5
  - refreshing *Program* 5-445
  - reset sequence *Cfg* 7-24
  - resetting to system defaults *Program* 5-446
  - status line *AppDev* 26-7
  - timing interval *Cfg* 7-16
  - visible bell *Cfg* 7-47
- Terminal type
  - setting *Cfg* 2-12
- Terminal-specific variable *Cfg* 2-12
- terminfo *Cfg* 7-3
- Test
  - connection *GetStart-2Tier* 2-18, *GetStart-JN* 4-6, *GetStart-JN* 5-22
  - screens *GetStart-JN* 9-1
  - validation *GetStart-JN* 16-18
    - stepIntro *GetStart-2Tier* 12-16
- Test mode *AppDev* 38-4
  - exiting *AppDev* 38-8, *GetStart-JN* 9-8
  - menu bar *AppDev* 38-1
    - vs. application mode *AppDev* 38-5
- Testing
  - overview of *AppDev* 1-24
  - screens *GetStart-2Tier* 5-1
- Text
  - entry widgets *Editors* 2-20
    - event handler in Java *AppDev* 21-13
  - format and display properties *Editors* 10-3
  - formatting for a database *AppDev* 30-1
  - generating reports in *Rpts* 9-12
  - graph widgets *Editors* 13-7
  - hiding *Editors* 10-5
  - justification *Editors* 10-5
  - reading from field
    - word wrapped *Program* 5-584
  - selection appearance *Cfg* 2-19
  - writing to field *Program* 5-441
    - word wrapped *Program* 5-585
- Text editor
  - invoking for arrays *Program* 5-174
  - invoking for JPL procedures *AppDev* 19-14
  - naming for JPL procedures *Cfg* 2-6
- Text files
  - import/export to JDB database *JDB SQL* A-7
- Text Size property
  - graph widget *Editors* 13-9
  - graph widget labels *Editors* 13-9, *Editors* 13-13
  - graph widget legend *Editors* 13-9, *Editors* 13-11
  - graph widget pie chart labels *Editors* 13-37
  - graph widget subtitle *Editors* 13-9, *Editors* 13-10
  - graph widget title *Editors* 13-9, *Editors* 13-10
- Text widget
  - 3D (in Windows) *Editors* 10-24
  - selection appearance *Cfg* 2-19

- Thousands Separator property *Editors* 10-21
- Three-tier applications *AppDev* 4-1
  - conversion from 2-tier *JetNet* B-1
  - using EJBs *WebSphere* 1-1
  - using MTS *COM/MTS* 1-2
- Three-tier architecture *AppDev* 1-3, *AppDev* 27-5,  
*GetStart-2Tier* 2-4, *GetStart-JN* C-4
  - sample application *JetNet* C-1
- Threshold property
  - specifying size of select set *Editors* 22-7
- Tick marks
  - graph widget axes *Editors* 13-18
- Timeout
  - preventing *Program* 2-66
  - server configuration *AppDev* 39-3
- Time-out delay *Cfg* 7-48
- Timeout function *AppDev* 44-33
  - example *AppDev* 44-78
  - return codes *AppDev* 44-33
  - standard arguments *AppDev* 44-33
  - testing input *Program* 5-260
- Timer function *AppDev* 44-34
  - return codes *AppDev* 44-35
  - standard arguments *AppDev* 44-35
- Timing interval
  - assigning to keyboard input *Cfg* 7-24
  - setting with percent commands *Cfg* 7-16
- Title
  - for MDI window *Cfg* 3-4
  - on grid columns *Editors* 15-6
  - on grid rows *Editors* 15-9
- Title Bar property *Editors* 6-24
- Title page *Rpts* 8-8
- Title property *Web* 8-14
  - graph widget *Editors* 13-9
  - graph widget legend *Editors* 13-11
  - list box widget *Editors* 20-4
  - on borders *Editors* 21-9
  - on wizard output *Editors* 3-6
  - screens *Editors* 6-23
  - specifying in screen wizard *Editors* 4-21
- TM Class property
  - menu items *Editors* 23-7, *Editors* 25-11
- tm\_events\_clt procedure *GetStart-2Tier* 12-9,  
*GetStart-2Tier* 12-10, *GetStart-JN* 13-17,  
*GetStart-JN* 16-11, *GetStart-JN* 16-12
- tm\_events\_svr procedure *GetStart-2Tier* 9-11
  - on dstord service container *GetStart-JN* 13-12
- TMQFORWARD *JetNet* 8-12, *JetNet* 8-14
- TMQUEUE *JetNet* 8-12
- TMSYSEVT *JetNet* 8-6
- TMUSREVT *JetNet* 8-6
- Toggle button widget *Editors* 2-23, *Editors* 20-9
  - displaying image on *Editors* 21-10
  - event handler in Java *AppDev* 21-13
  - label text alignment *Editors* 10-6
- Toggle indicator
  - on menu item *Editors* 25-11
- Toggle menu item *Editors* 25-11
- Tool box
  - multiple create mode *Editors* 2-10
- Toolbar *AppDev* 15-7
  - adding items *Editors* 25-9
  - assigning images to items *Editors* 25-9, *Editors* 25-14
  - assigning in screen wizard *Editors* 4-22
  - assigning tooltip text to item *Editors* 25-9
  - configuring
    - in editor *Editors* 2-18
  - displaying *AppDev* 15-1
  - enabling display *Cfg* 2-20
  - ordering items in *Editors* 25-9
  - screen wizard template *Editors* 3-4
  - setting runtime properties *AppDev* 15-10
  - setup variables *Cfg* 2-20
  - sizing images *Editors* 25-15
- Tool box
  - Create *GetStart-JN* 12-9
- Toolbar property
  - menu items *Editors* 25-9

- TOOLBAR\_DISPLAY *Cfg* 2-20
- Tooltip
  - assigning to toolbar item *Editors* 25-9
  - enabling display *Cfg* 2-20
  - testing *Editors* 25-18
- Tooltip property
  - toolbar items *Editors* 25-9
- TOOLTIP\_DISPLAY *Cfg* 2-20
- Top Screen option *AppDev* 38-2
- Total
  - page
    - in reports *Rpts* 7-7
- Totaled report data
  - specifying in report wizard *Editors* 5-19
  - summary-only reports *Editors* 5-19
- Totals
  - grand in reports *Rpts* 7-5
  - group in reports *Rpts* 7-5
  - in reports *Rpts* 7-4
    - grand totals *Rpts* 6-17
    - summary-only *Rpts* 6-16
- TP\_COMMAND *JetNet* 6-14
- TP\_CONNECTION *JetNet* 6-14
- TP\_ERROR *JetNet* 6-14
- TP\_INFORMATION *JetNet* 6-13
- TP\_MESSAGE *JetNet* 6-14
- TP\_NONE *JetNet* 6-13
- TP\_PANIC *JetNet* 6-15
- TP\_REQUEST *JetNet* 6-14
- TP\_TRANSACTION *JetNet* 6-14
- TP\_WARNING *JetNet* 6-14
- Trace menu
  - in debugger *AppDev* 39-11
- Trailer page *Rpts* 8-9
- Transaction
  - control and request broker *JetNet* 7-3
  - database drivers *Program* 11-1
  - defined *JDB SQL* 3-9
  - error handling *AppDev* 28-12
  - in the transaction manager
    - changing transactions *Program* 8-10
    - closing the current transaction *Program* 8-43
    - starting a new transaction *Program* 8-62
  - processing database transactions *AppDev* 28-10
  - processing for database
    - JDB JDB SQL* 3-9
  - setting timeout
    - on middleware transaction *Program* 2-102
  - specifying service call outside of *Program* 2-67
  - unspecified *Editors* 22-12
- XA
  - committing *Program* 2-106
  - completing *Program* 2-108
  - rolling back *Program* 2-110
  - starting *Program* 2-102
- Transaction classes *Editors* 23-5
  - defaults *Editors* 23-6
  - widgets *AppDev* 36-14
  - style assignments by mode *Editors* 23-7
- Transaction commands
  - executing *Program* 5-497
- Transaction control *JetNet* 8-3
- Transaction events *Program* 8-5, *Program* 9-1
  - adding to the stack *AppDev* 35-10
  - after an error *AppDev* 36-28, *Program* 8-5
  - clearing event stack *Program* 5-496
  - controlling the event stack *AppDev* 35-9
  - getting event name *Program* 5-509
  - getting event number *Program* 5-507
  - popping event from stack *Program* 5-527
  - pushing onto stack *Program* 5-530
  - unsupported *AppDev* 32-6
- Transaction manager *GetStart-2Tier* 9-20, *GetStart-JN* 13-23
  - and debugger *AppDev* 39-8
  - availability of CONTINUE *Program* 5-501
  - before image processing *AppDev* 36-7, *Program* 5-93, *Program* 5-95, *Program* 5-96, *Program* 5-208, *Program* 5-213

- changing the transaction mode *AppDev* 31-14
- changing to update mode *Program* 8-37
- changing to view mode *Program* 8-39
- clear fields *Program* 5-495
- clearing data in widgets *Program* 8-11
- clearing event stack *Program* 5-496
- closing a screen *AppDev* 36-2
- closing current transaction *Program* 8-43
- closing database transaction *Program* 8-13
- commands *AppDev* 34-2, *Program* 8-1
  - listing of events *Program* 8-5
- controlling event stack *Program* 5-527, *Program* 5-530
- copying data for edit *Program* 8-35
- copying from repository *AppDev* 31-3
  - determining sequence *AppDev* 31-4
- creating screens for *AppDev* 31-1
- deleting data *AppDev* 36-9
- description *GetStart-2Tier* 2-14, *GetStart-JN* C-14
- development process for *AppDev* 31-2
- disabling *AppDev* 36-3
- discarding changes *Program* 8-45
- entering new data *Program* 8-47
- error list *Program* 10-1
- error processing
  - controlling display *AppDev* 36-30
- errors
  - database *Program* 5-503
  - error logs *Program* 5-505
  - reporting *Program* 5-499, *Program* 5-500, *Program* 5-504, *Program* 5-510, *Program* 5-519, *Program* 5-520, *Program* 5-521
- event functions *AppDev* 32-1
  - checking for database errors *AppDev* 32-4
  - DELETE statement *AppDev* 32-9
  - INSERT statement *AppDev* 32-9
  - SELECT statement *AppDev* 32-6
  - specifying return codes *AppDev* 32-3
  - UPDATE statement *AppDev* 32-9
- event stack *AppDev* 35-7
- executing command *Program* 5-497
- fetching data *AppDev* 36-3
  - for update *AppDev* 36-8, *Program* 8-57
  - for view *Program* 8-65
  - getting first set of rows *Program* 8-27
  - getting last set of rows *Program* 8-19
  - getting next set of rows *Program* 8-16, *Program* 8-23, *Program* 8-41
  - getting previous set of rows *Program* 8-31
  - with a maximum row count *AppDev* 36-6
- freeing memory *Program* 5-26
- generating SQL *AppDev* 1-17, *AppDev* 27-2
  - appending text *Program* 5-46
  - changing bind values *Program* 5-27
  - changing FROM clause *Program* 5-32
  - changing GROUP BY clause *Program* 5-35
  - changing HAVING clause *Program* 5-37
  - changing ORDER BY clause *Program* 5-43
  - changing select list *Program* 5-40
  - changing WHERE clause *Program* 5-48
  - for SELECT statements *Program* 5-53
- getting attributes *Program* 5-513, *Program* 5-523, *Program* 5-525
- guidelines for using *Editors* 22-1
- hook function return codes *Program* 8-5
- hook functions
  - return codes *AppDev* 44-50
  - standard arguments *AppDev* 44-50
- in JetNet applications *AppDev* 35-12
- initiating a transaction *AppDev* 17-7, *Program* 8-62
- installed event functions *AppDev* 44-50
- no-operation traversal *Program* 8-70, *Program* 8-72, *Program* 8-74, *Program* 8-76
- opening a screen *AppDev* 36-2
- processing at runtime *AppDev* 36-1
- processing events *AppDev* 35-1

- processing for transaction commands *Program* 8-1
- refreshing the screen *Program* 8-50
- restrictions *AppDev* 34-2, *Program* 8-5
- saving database changes *Program* 8-52
- setting attributes *Program* 5-517, *Program* 5-528
- setting CLEAR command behavior *Program* 5-75
- setting number of rows in SELECT *Program* 5-72
- setting number of rows per fetch *Program* 5-73
- setting the transaction mode *Program* 8-4
- setting validation bits *Program* 5-76
- specifying commands *AppDev* 31-13, *AppDev* 34-4
- SQL generation *AppDev* 33-3
- styles
  - disabling *Program* 5-17
  - enabling *Program* 5-18
- switching transactions *Program* 8-10
- transaction events *Program* 5-507, *Program* 5-509, *Program* 8-5, *Program* 9-1
- transaction requests *Program* 9-1
- tree traversal *AppDev* 31-10, *Program* 8-4
- using in Panther *AppDev* 27-2
- verifying changes *AppDev* 36-11
- viewing generated SQL *AppDev* 36-2
- writing event functions *AppDev* 31-15
- Transaction manager commands *AppDev* 34-2, *Program* 8-1
  - availability by mode *AppDev* 34-7
  - processing for *AppDev* 35-3
  - specifying full commands *AppDev* 34-6
  - specifying partial commands *AppDev* 34-6
  - specifying the table view *Program* 8-4
- Transaction mode *AppDev* 36-12, *Editors* 23-3
  - availability of commands *AppDev* 34-7
  - changing to initial mode *Program* 8-13, *Program* 8-45
  - changing to new mode *Program* 8-47
  - changing to update mode *Program* 8-37, *Program* 8-57
  - changing to view mode *Program* 8-39, *Program* 8-65
  - setting *Program* 8-4
- Transaction model *AppDev* 35-5
  - for JetNet *AppDev* 35-13
  - for request broker
    - modifying *JetNet* 7-2
  - initializing *AppDev* 7-2
  - return codes *AppDev* 32-3, *Program* 8-5
  - specifying *Editors* 22-4
  - specifying in Windows *AppDev* 7-8
- Transaction properties
  - link widgets *Editors* 22-14
  - screens *Editors* 2-33
  - table view *Editors* 22-3
  - widgets *Editors* 2-31
- Transaction styles *Editors* 23-5
  - ASCII *AppDev* A-40
  - assigned to default classes *Editors* 23-7
  - converting to/from ASCII *AppDev* A-40
  - creating *Editors* 23-8
  - defaults *AppDev* 36-14, *Editors* 23-6
  - report
    - s2asc *AppDev* A-40
  - saving *Editors* 23-13
  - testing *Editors* 23-13
- Transaction-level event scope
  - exception handlers *JetNet* 6-12
  - unload handlers *JetNet* 6-29
- Transactions
  - in web applications *Web* 10-3
- Transient Web global variables *Web* 7-3
- Translating *AppDev* 45-45
  - message file *AppDev* 45-2
  - physical keyboard *Cfg* 6-1
  - substitution variables *AppDev* 45-16, *AppDev* 45-21

- Translation table
    - installing *Program 5-587*
  - Transport Methods *GetStart-JN 4-4*
  - Traversal properties
    - for link widgets *AppDev 36-25*
    - for table views *AppDev 36-22*
    - for widgets *AppDev 36-25*
  - Troubleshooting
    - Panther COM applications *COM/MTS E-1*
    - Windows installation *Install 5-10*
  - Turning on/off inheritance *AppDev E-29*
  - Tutorial
    - configuring the *GetStart-2Tier A-1, GetStart-JN A-1*
    - requirements *GetStart-2Tier 3-7*
  - tutorial directory
    - contents *GetStart-JN 1-5, GetStart-JN 1-17*
  - Tutorial requirements *GetStart-JN C-10*
  - tutorstd.ini *GetStart-2Tier 1-1*
  - TUXEDO *JetNet 8-1*
    - creating service components *AppDev 12-1*
    - error messages *Install G-4*
    - features *GetStart-2Tier 2-17, GetStart-JN C-17*
    - setting up application *JetNet E-1*
  - Tuxedo
    - connecting to middleware *AppDev E-9*
    - connecting via EJBs *Cfg 2-12*
    - posting event *Program 2-47*
    - subscribing to event *Program 2-82*
  - System /Q support
    - JIF *Editors 24-15*
  - unsubscribing from event *Program 2-94*
  - Tuxedo applications
    - setting configuration file *Cfg 2-10*
  - Two-tier applications *AppDev 4-3*
  - Two-tier architecture *AppDev 1-2, AppDev 27-4, GetStart-2Tier 2-3, GetStart-JN C-3*
  - TXT\_SELECT\_ATTR *Cfg 2-19*
  - TXT\_SELECT\_MASK *Cfg 2-19*
  - Type property
    - menu items *Editors 25-7*
    - sequential *Editors 22-14*
    - server *Editors 22-14*
  - Type-ahead buffer *Cfg 2-22*
  - Type-Specifiers and Arguments *AppDev 21-18*
- U**
- ULOG file *GetStart-JN B-1, JetNet 4-10*
    - writing message to *Program 2-36*
  - Unadvertise event *JetNet 6-8*
    - built-in handlers *JetNet 6-10*
    - handler contract *JetNet 6-9*
  - Underlined property *Editors 10-10*
  - Undo
    - actions *Editors 9-20*
    - Undo levels *Editors 2-11*
  - Undo menu option *GetStart-2Tier 6-4*
  - Unfiltered data *Editors 14-2*
  - UNIQUE
    - dbms command
      - suppressing repeating values *Program 11-53*
      - suppressing repeating values *AppDev 29-18*
  - Unique keys
    - defining using JISQL *JDB SQL 5-9*
  - UNIX
    - deploying application *AppDev D-4, JetNet F-5*
    - requirements *Install 6-1*
  - UNIX client
    - setting up *GetStart-JN 3-2*
  - UNIX kernel
    - setting for Panther application *JetNet 2-15*
  - Unload event *JetNet 6-28*
    - built-in handlers *JetNet 6-31*

- Unnamed area
  - layout area
    - in reports *Rpts* 2-1
- Unnamed procedure *AppDev* 19-2
  - executing in screen JPL *AppDev* 17-6
  - for service routine *JetNet* 5-12
  - getting standard arguments *AppDev* 19-3
- Unsolicited message
  - handling via message handler *Program* 2-57
- Unsupported features
  - JDB *JDB SQL* 1-3
- upd\_order\_total *GetStart-2Tier* 12-14, *Get-Start-JN* 16-16
- Updatable property *Editors* 22-3
  - in automated SQL generation *AppDev* 33-32, *AppDev* 33-36, *AppDev* 33-38
- Update group
  - table view *Editors* 22-11
- Update Order property *Editors* 22-16
  - in automated SQL generation *AppDev* 33-36
- Update Service property *AppDev* 33-5, *Get-Start-JN* 11-7
- UPDATE statement
  - constructing *JDB SQL* 3-5
  - in JDB *JDB SQL* 6-52
  - SQL generation from properties *AppDev* 33-36, *AppDev* 33-45
- Upgrading
  - from JAM 5 *Upgrade* 4-1
  - from JAM 7 *Upgrade* 1-1, *Upgrade* 2-1
  - on UNIX *Install* 6-3
- URL
  - defining parts of *Web* 1-2, *Web* 4-2
  - encoding parameters *Web* 4-3
  - invoking *Program* 5-562
- Use If Null property *AppDev* 33-15
  - in automated SQL generation *AppDev* 33-17
- Use in Insert property *AppDev* 33-33
  - expression *AppDev* 33-34
  - in automated SQL generation *AppDev* 33-33
- Use In Select property *GetStart-2Tier* 12-4, *Get-Start-JN* 16-4
- Use in Select property *AppDev* 33-10
- Use in Update property
  - expression *AppDev* 33-37
  - in automated SQL generation *AppDev* 33-37
- Use In Where property *GetStart-2Tier* 6-5, *Get-Start-JN* 10-6
- Use in Where property *AppDev* 33-14
  - in automated SQL generation *AppDev* 33-14
  - operator specification *AppDev* 33-15
- User interface components
  - overview *Editors* 1-1
- User specification
  - on installation *Install* 4-2
- Utilities
  - AxView *Editors* 18-13
  - bin2c *AppDev* A-2
  - bin2hex *AppDev* A-4
  - binherit *AppDev* A-6
  - clnt2svr *JetNet* A-2, *JetNet* B-1
  - cmap2bin *AppDev* A-8
  - dd2rec *Upgrade* 4-24
  - dd5upg *Upgrade* 4-21
  - f2asc *AppDev* A-11
  - f5upg *Upgrade* 4-12
  - file extensions
    - default behavior *Cfg* 2-26
  - isql *JDB SQL* A-2
  - jdbroll *JDB SQL* A-5
  - jpl2bin *AppDev* A-20
  - key2bin *Cfg* 8-2
  - lmcksum *Install* E-7
  - lmdiag *Install* E-8
  - lmdown *Install* E-9
  - lmgrd *Install* E-10
  - lmhostid *Install* E-12
  - lminstall *Install* E-13
  - lmremove *Install* E-14
  - lmreread *Install* E-15
  - lmstat *Install* E-16
  - lmswitchr *Install* E-18

Imver *Install* E-19  
m2asc *AppDev* A-22  
makedlls *COM/MTS* A-2  
mksql *JDB SQL* A-6  
monitor *Web* A-2  
msg2bin *AppDev* A-29  
rb2asc *JetNet* A-4  
rbboot *JetNet* A-5  
rbconfig *JetNet* A-6  
rblisten *JetNet* A-7  
rbshutdown *JetNet* A-9  
renaming *Install* 8-16  
rw6toprl *Upgrade* 1-52  
showkey *Cfg* 6-4  
tbldata *JDB SQL* A-7  
term2vid *Cfg* 7-18  
using in Windows *Install* H-4  
var2bin *Cfg* 8-5  
vid2bin *Cfg* 8-7

## V

valid\_item\_total *GetStart-2Tier* 12-13, *GetStart-2Tier* 12-14, *GetStart-JN* 16-15, *GetStart-JN* 16-16  
Validation *AppDev* 23-14  
    automatic help *Editors* 12-5  
    character-level *Cfg* 2-28  
    clearing MDT bit *AppDev* 23-15, *Program* 5-107  
    executing check digit function *Program* 5-105  
    field *AppDev* 44-15, *Editors* 8-9  
    field function invocation *AppDev* 44-15  
    forcing  
        for field *Program* 5-205  
        for group *Program* 5-224  
        for screen *Program* 5-457  
    MDT bit *AppDev* 23-14  
    screen *AppDev* 44-15  
    setting mdt property *AppDev* 17-6  
    setting validated property *AppDev* 17-6, *AppDev* 23-14  
        setup options *Cfg* 2-17  
        testing screen for modified data *AppDev* 23-15, *Program* 5-548  
        using check digit *Editors* 8-29  
        using table lookup *Editors* 12-13  
        validation bit *AppDev* 23-14  
        widget *Program* 5-556  
        XMIT key *AppDev* 44-15  
Validation bit *AppDev* 23-14  
Validation Func property *GetStart-JN* 16-15  
    stepIntro *GetStart-2Tier* 12-13  
Validation link  
    generating list of fields *Program* 5-539  
    getting list of fields *Program* 5-540  
Validation Link property *AppDev* 33-46, *AppDev* 33-47, *Editors* 22-21  
    set by screen wizard *Editors* B-3, *Editors* B-6  
    setting on a widget *AppDev* 31-13  
    validating entries *GetStart-2Tier* 11-10  
Validation properties  
    widgets *Editors* 2-31  
Validation Protection property *Editors* 8-9  
Validation service *GetStart-JN* 15-9, *GetStart-JN* 15-12  
Validation Service property *Editors* 22-16, *GetStart-JN* 15-1  
validated property  
    setting *AppDev* 23-14  
Value Location property  
    graph widget  
        pie chart *Editors* 13-35  
Value Source property  
    graph widget data series *Editors* 13-23  
var2bin *Cfg* 8-5  
    errors *Cfg* 8-5  
Variables  
    creating JPL global variables *Program* 5-564  
    declaring global in JPL *Program* 2-29  
    declaring in JPL *Program* 2-95  
    getting global values *Program* 5-231



- monitoring through debugger *AppDev* 39-6
- updating global values *Program* 5-242
- watching through debugger *AppDev* 39-26
- vbizplus database *Rpts* B-1
- VBScript
  - accessing HTML names *Web* 9-6
  - events *Web* 9-2
- VBScript property *Web* 9-4
- Version Column property *AppDev* 33-41
  - in automated SQL generation *AppDev* 33-42
- Vert Rotation property
  - graph widget *Editors* 13-22
    - bar/line graph *Editors* 13-43
    - high/low chart *Editors* 13-51
    - pie chart *Editors* 13-33
    - XY plot *Editors* 13-47
- Vertical Anchor property *Web* 3-14
  - in web applications *Web* 3-14
  - widgets *Editors* 9-19
- Vertical lines
  - in grid widgets *Editors* 15-8
- Vertical Scroll Bar property
  - grid widgets *Editors* 15-8
  - list box widget *Editors* 20-6
  - scrolling arrays *Editors* 10-15
- Vertical Shrinking property
  - screen *Editors* 6-14, *Editors* 21-8
- vid2bin *Cfg* 8-7
  - errors *Cfg* 8-7
- Video file *Cfg* 7-1, *Upgrade* B-2
  - converting terminfo/termcap to *Cfg* 7-16
  - converting to binary *Cfg* 8-7
  - creating *Cfg* 7-16
  - international character support *Cfg* 7-41
  - keyword summary *Cfg* 7-19
  - making memory-resident *AppDev* 42-11
  - parameter sequencing
    - for processing keywords *Cfg* 7-4
  - parameters for keyword sequences *Cfg* 7-8
  - sample
    - ANSI terminal *Cfg* 7-49
    - screen size entries *Cfg* 7-24
    - syntax *Cfg* 7-6
- Video mapping
  - file *Upgrade* B-2
  - initializing *Program* 5-558
  - internationalization *AppDev* 45-46
- Video processing function *AppDev* 44-47
  - return codes *AppDev* 44-49
  - standard argument *AppDev* 44-47
- videobiz
  - description of database *JDB SQL* D-1
  - diagram *JDB SQL* 2-8
- vidsales database *GetStart-2Tier* 3-4, *GetStart-JN* 6-6
  - importing *GetStart-2Tier* 3-5, *GetStart-JN* 6-8
- VIEW
  - transaction manager command
    - fetching data for view *Program* 8-65
- View command *GetStart-2Tier* 5-3, *GetStart-JN* 9-4
- View menu
  - in debugger *AppDev* 39-4
- View operation
  - generating argument list
    - for service call *Program* 5-537, *Program* 5-538
- Viewport *AppDev* 13-4, *Editors* 6-6
  - changing *Editors* 6-6
  - enabling user to change *Program* 5-577
- Virtual column *AppDev* 31-11
- Virtual field *GetStart-2Tier* 12-1, *GetStart-JN* 16-1
  - including in SQL generation *GetStart-2Tier* 12-5, *GetStart-JN* 16-6
- Virtual screen *Editors* 6-6
- Visible bell *Cfg* 7-47
- Visual Age for Java
  - setting location of *Cfg* 2-7

## W

### WALK\_DELETE

- transaction manager command
- traversing tree *Program* 8-70

### WALK\_INSERT

- transaction manager command
- traversing tree *Program* 8-72

### WALK\_SELECT

- transaction manager command
- traversing tree *Program* 8-74

### WALK\_UPDATE

- transaction manager command
- traversing tree *Program* 8-76

### Wallpaper *Editors* 6-17

- file types supported for *Editors* 6-17
- for MDI window *Cfg* 3-5

### Wallpaper Pixmap property *Editors* 6-18

- in framesets *Editors* 17-6

### Warning messages

- database *Program* 12-9, *Program* 12-10, *Program* 12-18
- report output *Rpts* 9-14

### Warning property

- specifying size of select set *Editors* 22-7

### Web

#### sample application

- UNIX *Install* 8-15
- Windows *Install* 5-9

#### supported architecture *Install* 3-2

### Web application architecture *AppDev* 1-22, *GetStart-2Tier* 2-5, *GetStart-JN* C-5

- in the tutorial *GetStart-2Tier* A-1, *GetStart-JN* A-1

### Web application broker

- configuring *Install* 8-8
- installing *Install* 6-2
- licensing *Install* E-3
- with other Panther software *Install* C-3

### Web application library

- opening on editor startup *GetStart-2Tier* 1-2

### Web application server *GetStart-2Tier* 2-1, *GetStart-JN* 5-1

#### administering *Web* A-2

#### components *Web* 1-7

#### dispatcher *Web* 1-8, *Web* 12-5

#### errors *GetStart-JN* B-1

#### jservlet *Web* 1-7, *Web* 12-5

#### licensing *Web* 12-5

#### making executables

##### in Windows *COM/MTS* C-3

#### requester *Web* 1-7, *Web* 2-2

#### setting number *Web* 12-5

#### shutting down *GetStart-2Tier* 2-19, *GetStart-JN* 5-23

#### starting from Web browser *GetStart-2Tier* 2-18

#### unable to start *GetStart-JN* B-3

### Web applications

#### about *Web* 1-5

#### configuring *WebSphere* 8-4

##### in Panther/*WebSphere* *WebSphere* 2-13

##### Java servlets *WebSphere* 2-16

#### defining stylesheets *Web* 8-19

#### getting cookie values *Program* 5-561

#### initialization file *WebSphere* 2-14, *Web* B-2

##### options *Web* 12-1

##### sample *Web* 12-9

#### installing as Windows service *Web* A-2

#### listing Windows services *Web* A-2

#### loading graphics *Web* 8-17

#### removing as Windows service *Web* A-2

#### runtime properties *Web* 3-18

#### samples *Web* E-1

#### setting browser events *Web* 9-2

#### setting cookies *Program* 5-566

#### setting startup/shutdown procedures *Cfg* 2-8

#### setting up

##### Java servlets *Web* D-1

##### NSAPI *Web* C-1

##### using the Web Setup Manager *Web* B-1

#### specifying firewall access *JetNet* 3-18

- starting with monitor utility *Web A-3*
- stopping *Web A-3*
- using ActiveX controls *Web 8-24*
  - setting the Codebase property *Web 8-27*
  - transferring data *Editors 18-8*
- using framesets *Editors 17-14*
- using HTML templates *Web 8-4*
- writing an error log *Program 5-563*
- writing error logs *Web 2-5*
- Web browser
  - navigating reports in *Rpts 9-28*
- Web events
  - application shutdown *Web 5-3*
  - application startup *Web 5-1*
  - context flags on web entry *Web 5-9*
  - hook procedures *Web 5-1*
  - in the browser *Web 9-2*
  - pre-HTML generation *Web 5-2*
  - screen posting *Web 5-2*
  - sequence *Web 5-5*
- Web Options properties
  - screen *Web 3-3*
  - screens *Editors 2-33*
  - widgets *Editors 2-32, Web 3-5*
- Web resources
  - invoking *Program 5-562*
- `web_shutdown` *GetStart-2Tier 2-15, GetStart-JN 5-18*
- `web_startup` *GetStart-2Tier 2-15, GetStart-JN 5-18*
- WebSphere
  - creating application server *WebSphere 2-6*
  - deploying EJBs *WebSphere 8-1*
  - installing EJBs *WebSphere 6-2*
  - requirements
    - application server *WebSphere 2-3*
    - web application *WebSphere 2-14*
  - runtime configuration *WebSphere 8-1*
  - specifying server machine *WebSphere 7-3*
- WebSphere applications
  - connecting to Tuxedo *Cfg 2-12*
  - setting location of
    - Administrative Console *Cfg 2-7*
    - Visual Age for Java *Cfg 2-7*
  - setting machine access *Cfg 2-10*
- WHERE clause
  - changing SQL generation *Program 5-48*
  - constructing *JDB SQL 3-4*
  - in automated SQL generation *AppDev 33-14, AppDev 33-38, AppDev 33-41*
  - in JDB *JDB SQL 6-54*
- While loop *Program 2-100*
- White space
  - reducing *Rpts 8-14*
  - reducing between report widgets *Rpts 2-9*
- Widget events *AppDev 17-2*
- Widget ID
  - getting
    - for base window *Program 5-589*
    - for display *Program 5-590*
    - for drawing area *Program 5-152*
    - for screen-resident widget *Program 5-571*
- Widget List *GetStart-2Tier 12-5, GetStart-JN 11-5, GetStart-JN 16-6*
- using *Editors 9-3*
- Widget name
  - assigning *Editors 8-3*
  - case sensitivity *AppDev 29-3*
  - getting *AppDev 14-3*
  - in tab properties *Editors 8-14*
  - using in Relations dialog box *Editors 22-17*
- Widget properties set by screen wizard
  - three-tier client screens *Editors B-5*
  - two-tier screens *Editors B-2*
- Widget runtime properties *QckRef 1-110*
  - getting *AppDev 23-6*
- Widget Type property *Editors 10-3, GetStart-2Tier 8-4, GetStart-JN 12-4*
- Widgets
  - 3D (in Windows) *Editors 10-24*
  - accessing HTML names *Web 9-6*
  - accessing with mnemonic *Editors 8-4*

- aliasing to column names *Program* 11-5
- arranging *Editors* 9-13
  - insufficient space *Editors* 9-17
- attaching drawing function *Program* 5-87
- attaching JPL procedure to
  - attaching JPL procedure *AppDev* 19-16
- automatic vs. custom spacing *Editors* 9-16
- calls to JPL from *AppDev* 19-21
- centering in screen *Editors* 9-18
- changing types *Editors* 10-3
- class names in Motif *Cfg* 4-12
- command execution with *Editors* 2-22
- copying *GetStart-2Tier* 7-7, *GetStart-JN* 11-11, *Program* 5-396
  - in screen editor *Editors* 9-11
- copying from repository
  - for transaction manager *AppDev* 31-3
- counting number in container *Program* 5-298
- creating *AppDev* E-13
- creating object list *Program* 5-302
- creating with keyboard *Editors* A-3
- database type *Editors* 2-24
- decoration type *Editors* 2-24
- deleting
  - at runtime *Program* 5-402
  - in screen editor *Editors* 9-13
- destroying object list *Program* 5-299
- determining dominant *GetStart-2Tier* 7-8, *GetStart-JN* 11-12
- displaying images on *Editors* 21-10
- documenting *Editors* 8-30
- dominant selection *Editors* 9-1
  - setting *Editors* 9-2
- drawing area *Cfg* 4-15
- entering data automatically with *Editors* 2-21
- exporting to HTML *Web* 9-6
- font property *Editors* 10-8
- getting runtime property values *Program* 5-428
- hierarchy, Motif *Cfg* 4-12
  - base screen *Cfg* 4-12
  - fields *Cfg* 4-15
  - menu bars *Cfg* 4-17
  - Panther screens *Cfg* 4-14
- HTML attribute properties *Web* 8-3
- identifying *AppDev* 14-3, *Editors* 8-2
- including in SQL generation *AppDev* 31-11
- invoking popup menu *Program* 5-425
- JPL validation *AppDev* 19-8
- layout area *Rpts* 2-3
- mapping to database columns *AppDev* 29-3
- menu
  - attaching *AppDev* 15-4
  - moving *GetStart-2Tier* 7-5, *GetStart-JN* 11-10
  - naming *GetStart-2Tier* 7-10, *GetStart-JN* 11-14
- overlapping *AppDev* E-17
  - in web applications *Web* 3-14
- positioning *Editors* 9-13
  - aligning with other widgets *Editors* 9-14
  - moving *Editors* 9-11
  - spacing evenly *Editors* 9-16
  - units of measurement *Editors* 9-7
- positioning properties *Web* 3-14
- properties for SQL generation *AppDev* 33-3
- protecting *Editors* 8-8
- repositioning at runtime *Program* 5-77
- resizing *Editors* 9-5
  - at runtime *Editors* 9-9
  - units of measurement *Editors* 9-7
- selecting *Editors* 9-1
  - on tab cards *Editors* 16-4
- selecting with keyboard *Editors* A-4
- selection type *Editors* 2-22
- setting runtime property values *Program* 5-435
- size
  - changing *Editors* 9-5
  - specifying *Editors* 9-6
  - unifying *Editors* 9-8
- sizing to fit content *Editors* 9-7

- specifying initial data for *Editors* 10-2
- storing templates in repository *AppDev* 11-7
- traversing container *Program* 5-300
- using Java methods *Program* 7-8
- validation *AppDev* 23-14, *Program* 5-556
- Width property
  - defined *Editors* 9-6
  - for widgets *Editors* 9-6
  - graph widget tick marks *Editors* 13-20
- Wildcard characters
  - in JDB *JDB SQL* 6-33
- win.ini *Cfg* 3-1
- Window
  - changing focus among siblings *AppDev* 24-5
  - changing focus of *Program* 5-578
  - closing *Program* 5-110, *Program* 5-246
  - deselecting *AppDev* 24-4, *Program* 5-560
  - displaying messages in *AppDev* 45-12
  - giving focus to *AppDev* 24-4, *Program* 5-580
  - opening *AppDev* 13-3, *Program* 5-256, *Program* 5-574
    - as sibling *AppDev* 24-4
    - at cursor location *Program* 5-86
  - placement in MDI frame *Cfg* 3-5
  - printing *Program* 5-388
  - resizing *Program* 5-577
  - setting next as sibling *AppDev* 24-4
  - setting next sibling *Program* 5-474
  - setting position *Program* 5-256
  - sibling *Program* 5-578, *Program* 5-580
- Window stack *AppDev* 24-3
  - changing focus in *Program* 5-578
  - changing order *AppDev* 24-4, *Program* 5-580
  - counting windows *Program* 5-559
  - deselecting window *Program* 5-560
- Windows
  - color definition *Cfg* 3-7
  - control panel *Cfg* 3-1
  - deploying application *AppDev* D-2, *JetNet* F-2
  - generating reports in Windows format *Rpts* 9-12
  - initialization file *Cfg* 3-1
  - servers
    - configuring *Web* 2-8
    - installing as a service *Web* A-4
  - upgrade requirements *Install* 3-1
  - using MDI frame *AppDev* 13-6
- Windows client
  - setting up *GetStart-2Tier* 1-1
- Windows initialization file *Cfg* 3-1
  - 3D *Cfg* 3-4
  - application behavior options *Cfg* 3-4
  - colors *Cfg* 3-7
  - defining bitmap location *Editors* 21-12
  - defining pixmap location *Editors* 25-16
  - FrameTitle *Cfg* 3-4
  - location of *Cfg* 3-2
  - naming *Cfg* 3-2
  - Panther Colors *Cfg* 3-7
  - sample *Cfg* 3-11
  - setting defaults *Cfg* 3-1
  - specifying *AppDev* 43-8
  - splash screen *Cfg* 3-5, *AppDev* 43-8
  - syntax *Cfg* 3-2
  - wallpaper for MDI window *Cfg* 3-5
  - window placement in MDI frame *Cfg* 3-5
- Windows list menu item *Editors* 25-12
- Windows operations menu item *Editors* 25-12
- Windows service
  - finding service names *Web* A-2
  - installing Web application as *Web* A-2
  - removing Web application *Web* A-2
- WinHelp *Editors* 12-14
- WITH CONNECTION
  - dbms clause
    - setting database connection *Program* 11-54
  - dbms command
    - setting database connection *AppDev* 8-4
- WITH CURSOR
  - dbms clause
    - setting database cursor *Program* 11-56

WITH ENGINE

- dbms clause
  - setting database engine *Program* 11-58
- dbms command
  - setting database engine *AppDev* 7-3

Wizards

- generated JPL modules *Editors* 3-5
- navigating in *Editors* 3-6
- templates *Editors* 3-2

Word wrap function

- specifying *Editors* 14-17

Word Wrap property *Editors* 14-18

- in web applications *Web* 3-9

Word wrapped text

- fetching column values *AppDev* 29-8
- getting length *Program* 5-582
- reading from field *Program* 5-584
- setting tab space *Cfg* 2-30
- special logical keys *Editors* 14-18
- writing to field *Program* 5-585

Workstation client

- connecting to application *JetNet* 1-4
- defined *JetNet* 1-2
- environment *JetNet* 2-8
- idle time allowed *JetNet* 3-18

Workstation handler

- minimum available on machine *JetNet* 3-18
- timing out idle client *JetNet* 3-18

Workstation listener process

- specifying network address *JetNet* 3-18

WSNADDR

- specifying *Cfg* 2-11

WWTAB *Cfg* 2-30

**X**

X Anchor property

- graph widget legend *Editors* 13-13

X axis

- Axis, graph widget *Editors* 13-4

X Location property

- graph widget legend *Editors* 13-13

X Position property

- graph widget
  - pie chart *Editors* 13-34
- graph widget legend *Editors* 13-13

X Value Source property

- graph widget
  - XY plot *Editors* 13-23

XA transactions *JetNet* 8-3

- committing *Program* 2-106
- completing *Program* 2-108
- rolling back *Program* 2-110
- starting *Program* 2-102

XAPPLRESDIR *Cfg* 4-3

XBM files *Editors* 21-10

Xdefaults *Cfg* 4-3

XMIT key (transmit)

- and push buttons *AppDev* 18-7
- making TAB and NL act like *Cfg* 2-30
- screen validation *AppDev* 44-15

XMIT\_LAST *Cfg* 2-30

XML *AppDev* 22-1

- generating *AppDev* 22-3, *Program* 5-591
  - for screens *Editors* 6-31
  - for widgets *Editors* 8-31
  - to file *Program* 5-592
- generating reports in *Rpts* 9-12
- importing *AppDev* 22-4, *Program* 5-593
  - from file *Program* 5-594
- properties *AppDev* 22-1
- runtime properties *QckRef* 1-108

XML properties

- screens *Editors* 2-33
- widgets *Editors* 2-32

XPM files *Editors* 21-10

xrdb *Cfg* 4-3

XY plot

- creating *Editors* 13-45
- data series style *Editors* 13-27
- legend *Editors* 13-10, *Editors* 13-11, *Editors*

13-30

ZW\_BORDATT Cfg 5-5

ZW\_BORDSTYLE Cfg 5-5

**Y**

Y Anchor property

graph widget legend *Editors* 13-13

Y axis property

graph widget data series *Editors* 13-29

Y Location property

graph widget legend *Editors* 13-13

Y Position property

graph widget

pie chart *Editors* 13-34graph widget legend *Editors* 13-13

Y Value Source property

graph widget

XY plot *Editors* 13-23

Y1 axis

Axis, graph widget *Editors* 13-4

Y2 axis

Axis, graph widget *Editors* 13-4

Yes/No

data entry filter *Editors* 14-3setting default values *AppDev* 45-24translating *AppDev* 45-45**Z**Zero Format property *Editors* 10-22

ZM\_DISPLAY Cfg 2-23

ZM\_SC\_OPTIONS Cfg 2-24

ZM\_SH\_OPTIONS Cfg 2-24

Zoned decimal *Editors* 8-6

ZOOM logical key

action-type list box *Editors* 20-6list-box in selection group *Editors* 20-15not supported for multiline text widget *Editors*  
14-18

Zoom window

setting border attributes Cfg 5-5

setting border style Cfg 5-5

setup options Cfg 2-24

