Objectives

You will learn to:

- recognize the features of Spiffy.
- appreciate concepts and terminology.
- become familiar with Spiffy’s view of an object.
- use Spiffy commands.
1 SPIFFY: Purpose and Function

SPIFFY, SPF/Extended is an enhancement to TSO/ISPF which integrates into ISPF functions.

SPIFFY extends the functions provided by ISPF for standard data sets to other objects:

- VSAM files
- Librarian/Panvalet libraries
- USS: UNIX System Services files
- PC files
- DB2 tables
- Object classes

SPIFFY also provides an object browser called OLIST.

1.1 Features and Benefits

SPIFFY combines separately provided ISPF utility functions and new SPIFFY features into the Member List and the OLIST/DLIST. The resulting member, data set, and object lists become platforms where tasks can be performed without navigating to other utilities.

SPIFFY:

- Extends the ISPF Action Bar with options that provide access to new functionality.
- Provides the capability to search for volumes, data sets, members, and text within members.
- Furnishes automatic drill-down system navigation to pinpoint volumes, data sets, and members.

SPIFFY has facilities that prompt actions upon cursor selection:

- Hotbars, which are user-defined fields that execute commands.
- Field-sensitive areas in Member Selection Lists and Object Lists.
- Automatic recognition of a data set name on any ISPF panel as a parameter to BROWSE, EDIT, VIEW, or parameters within any TSO command.
1.2 Object Orientation

SPIFFY extends the dataset objects used by ISPF to other object classes; this provides the capability for specifying the object to be processed and the action that is performed: EDIT, BROWSE, etc. The facility appropriate to the object class is invoked automatically. This means that the programmer does not need to be concerned with object classes and the corresponding utility for each.

Clicking on the object will result in the system taking the appropriate action by resolving the class of object and having the program or product perform the requested function.

Under SPIFFY, the same actions for a VSAM file in OLIST can be performed in DSLIST. The difference is that DSLIST does not support all objects, e.g., DB2 or PC file names, whereas OLIST supports all objects.

SPIFFY attempts to classify objects automatically. However, some object types cannot be automatically recognized; in this situation SPIFFY uses a special prefix character to designate the object class.
2  Extended Point-And-Shoot

SPIFFY extends the point-and-shoot capabilities of ISPF to allow more cursor activated functions. The cursor can be clicked on fields, which in conjunction with the pressing of the Enter key, will have SPIFFY invoke the appropriate action.

When an emulation program is used, the mouse can be used for both positioning the cursor on a field and sending the Enter key.

SPIFFY supports three new point-and-shoot facilities:

<table>
<thead>
<tr>
<th>Facility</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hotbars</td>
<td>User-definable point-and-shoot fields that appear on selected panels which provide the capability for entering frequently used commands without having to dedicate a PF key for that purpose. The Hotbar line can be revealed or hidden.</td>
</tr>
<tr>
<td>Point-and-Shoot Parameters</td>
<td>Any data set name included on any ISPF panel is automatically available as a point-and-shoot field for the BROWSE, EDIT, VIEW, and TSO commands.</td>
</tr>
<tr>
<td>Action Fields</td>
<td>Similar to the ISPF point-and-shoot fields, but are not marked by special highlighting. The Action Fields appear on the Member List and Object List panels.</td>
</tr>
</tbody>
</table>
3 Hotbars

The Hotbar is an optional line which can be defined for containing commands for each panel. Hotbars can be activated on the Member list, Object list, and BROWSE, EDIT, VIEW Entry Panels.

The Hotbar includes the Hotbar: tag on the left, followed by up to eight commands.

3.1 Hotbars - Activating

Activate Hotbars through the SET panel.

From any Command Line, except when in OLIST or MSL, enter one of the following:

- SPIFFY SET
- SPIFF SET
- SPFE SET

When in OLIST or MSL, enter SET; the SETTING SPIFFY DEFAULTS panel will be displayed.

Select the INTERFACE option; the User Interface Options panel will be displayed. To the right of Activate HOTBARS, enter a Y, and press Enter. The Hotbar will not be available on each of the panels.

3.2 Hotbars - Defining

Once the Hotbar is activated, it appears with commands. When the Hotbar is not going to be used, it can be deactivated thereby providing an extra panel line by setting Activate HOTBARS to N using the SET command.

Any valid command can be entered on the Hotbar. In order to specify the Hotbar commands, click the Hotbar: or Hotbar? tag or place the cursor under the Hotbar:/Hotbar? Tag and press Enter. The tag changes to HOTBAR= and the line allows input of up to eight commands.

When commands are not defined on the Hotbar, the Hotbar: tag changes to Hotbar?. The Hotbar line will still occupy a panel line.
4 Point-And-Shoot Parameters

SPIFFY supports the following ISPF point-and-shoot fields:

| • Action Bars | • Menu options | • Panel defined point-and-shoot fields |

Many ISPF panels contain data set names. SPIFFY automatically treats these as input parameters to the BROWSE, EDIT, and VIEW commands. SPIFFY TSO shell allows a slash to be used as a symbolic placeholder for a Point-and-Shoot Parameter within the parameter buffer of a TSO command.

A PF key can be predefined as BROWSE, EDIT, or VIEW; this allows the cursor to be placed on the data set name and PF key directly to be pressed directly.

SPIFFY attempts to determine the name of the data set that has been pointed to whether it is quoted or not. For unquoted data sets, SPIFFY will check a data set by the cataloged name.

- If the name is cataloged, SPIFFY assumes that the data set is fully qualified.
- If the data set is not in the catalog, SPIFFY will check whether the data set prefixed by the current TSO prefix is cataloged.
- If the TSO prefixed data set is in the catalog, SPIFFY will use this data set.
- If SPIFFY is not able to match a data set to the pointed string or the data set to be pointed to, BROWSE, EDIT, and VIEW will display a prompt panel, and the TSO shell will leave the slash unsubstituted.

4.1 Point-And-Shoot Commands - Adding

The SPIFFY TSO shell allows point-and-shoot substitution to occur within entered commands.

This capability can be used for defining a point-and-shoot command.
5 Function-Oriented Action Bar

For the major ISPF functions, Action Bars have been organized to look like Microsoft Windows.

The Action Bar reflects commands for the specific panel that is viewed.

- If File option is selected, a pull-down menu is displayed.
- When a pull-down item with an ellipsis (…) is chosen, a pop-up window is displayed. The pop-up window prompts information to be entered and any requested action to be confirmed.

The SPIFFY Action Bar and the pop-up windows provide the capability for accessing advanced functions without having to learn command names or parameters.
6  OLIST: Object List

OLIST is the SPIFY Object List. It is similar to DSLIST (option 3.4), but has some additional functionality.

OLIST will:
- contain only data sets.
- be used instead of DSLIST to gain access to new commands.
- display the list faster than DSLIST.

The two main types of Object Lists are:

<table>
<thead>
<tr>
<th>Temporary OLISTs</th>
<th>Permanent OLISTs</th>
</tr>
</thead>
</table>

6.1 Temporary OLISTs

Temporary OLISTs are invoked from the DSLIST Entry Panel or when specifying a data set with wildcards when invoking BROWSE, EDIT, or VIEW.

If OLIST is entered with no parameters; the last OLIST that has been invoked is displayed.

Similar to DSLIST, the list of data sets is built ad-hoc to match a generic data set specification: DSNAME with wildcards. This list is created from the catalog, a disk volume, or other sources.

6.2 Permanent OLISTs

Permanent OLISTs differ from temporary OLISTs in the following ways:
- They are given a name and an optional description.
- They are automatically saved across sessions.
- They can be recalled at any time from any panel.

This type of OLIST can be invoked the following ways:
- From the DSLIST Entry Panel.
- From a special option on the main menu.
- By entering the OLIST command on the command line of any panel.
6.3 OLISTS - Managing

In order to manage OLISTs at the Main Command line, enter:

OLIST *

The panel named Saved Objects Selection list is displayed.

This panel is where OLISTs can be managed. The Main Line and Line command options will be displayed in the panel.

The VALIDATE command provides the capability for automatically organizing the list by removing any OLISTs from the reference list that have not been saved.

When VALIDATE has been entered with no parameter, the next panel to be displayed has the list of updated OLISTs. It will show only the OLISTs that have been saved.

OLIST produces:

<table>
<thead>
<tr>
<th>File</th>
<th>Edit</th>
<th>Find</th>
<th>Display</th>
<th>Populate</th>
<th>Settings</th>
<th>SCLM</th>
<th>Menu</th>
<th>Test</th>
<th>Help</th>
<th>Exit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPF/E OLIST (V) ----------- Objects List ----------- Enter &quot;A&quot; for assistance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Command    ===&gt;                                               SCROLL ===&gt; PAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hotbar?    ===&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open list  ===&gt; #6002    (or BLANK for reference list)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSO PARMs   ===&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Command    Member   Num. Data Set Names / Objects       Volume</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------- -------- ---- ---------------------------------------------- --------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 '#6002'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 '#6002.A.CLIST'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 '#6002.A.DATA'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 '#6002.B.CLIST'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 '#6002.B.GDG'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 '#6002.CLAASS.SPUFI'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 '#6002.DB2PGM.CNTL'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 '#6002.DB2PGM.COBOOL'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 '#6002.DB2PGM.DBRM'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 '#6002.DB2PGM.LOAD'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 '#6002.ELPT.COBOOL'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 '#6002.ELPT.DISTRICT'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 '#6002.ELPT.MASTER'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 '#6002.ELPT.TEMPS'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 '#6002.ELPT.TEMPS36'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>