

ISPF Update and Refresh

ISPF Update and Refresh - Course Objectives

On successful completion of this class, the student, with the aid of the appropriate reference materials, should be able to:

1. Tailor the look and feel of ISPF to meet individual preferences to accomplish work under ISPF, including the ISPF appointment calendar feature
2. Work with newer commands, including nesting multiple levels of ISPF services and using the NRETRIEV command to recall data set names
3. Build and use reference lists
4. Use the more advanced features of option 3.4 (DSLISL), including locating members from a list of libraries and files or members that contain strings of characters or hex data, and using block commands from member lists
5. Use the Edit COMPARE command and the compare and search dialogs (3.12, 3.13, 3.14, 3.15)
6. Use the DISPLAY and FIND commands under Browse to work with non-EBCDIC (ASCII, Unicode UTF-8, UTF-16, UTF-32) data
7. Create and invoke basic edit macros, including macros that take arguments
8. Use the DDLIST command to examine the data sets allocated to their ISPF session, including finding users in contention for access to a file.
9. Use the ISPF Object / Action Workplace shell, if that is a better style for the user.

ISPF Update and Refresh - Topical Outline

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Section Preview

ISPF Update and Refresh - Introduction

Course Overview

ISPF Status Area

ISPF Appointment Calendar

ISPF SAREA Command

Working With the Status Area (Machine Exercise)

ISPF Update and Refresh - Overview

- ❑ **This course is designed to cover a variety of topics that are of use to application developers using ISPF**

These topics simply would not fit into the earlier course, due to time limitations; some of them are simply recent updates to the product

In this course, we ...

Fill in the details of ISPF Status Area, including some little known features that might be useful

Explicitly discuss command nesting, and explore START, ISPVAR, CURSOR, CRETRIEV, NRETRIEV

Revisit some ISPF utilities and reference lists

Include a more complete description of DSLIST (option 3.4) processing and capabilities

Explore the Edit COMPARE command and the ISPF search and compare facilities 3.12, 3.13, 3.14, 3.15

Discuss new features of BROWSE with respect to Unicode and ASCII files

Provide an introduction to edit macros

Introduce a diagnostic tool (DDLIST, *a.k.a.* ISRDDN)

Explore the ISPF Object / Action Workplace

ISPF Status Area

- The area of the Primary Option Menu circled below is called the Status area:

```

Menu Utilities Compilers Options Status Help
-----
Option ==>                                ISPF Primary Option Menu                                Enter Option

0 Settings      Terminal and user parameters
1 View          Display source data or listings
2 Edit          Create or change source data
3 Utilities     Perform utility functions
4 Foreground   Interactive language processing
5 Batch         Submit job for language processing
6 Command      Enter TSO or Workstation commands
7 Dialog Test  Perform dialog testing
9 IBM Products IBM program development products
10 SCLM        SW Configuration Library Manager
11 Workplace   ISPF Object/Action Workplace
12 z/OS System z/OS system programmer applications
13 z/OS User   z/OS user applications

User ID . . : STNT329
Time . . . : 12:25
Terminal . . : 3278
Screen . . . : 1
Language . . : ENGLISH
Appl ID . . : ISR
TSO logon . . : CTP
TSO prefix: STNT329
System ID . . : CBT
MVS acct. . . : TRNG00P0
Release . . . : ISPF 7.5

Enter X to Terminate using log/list defaults
  
```

- You can tailor the information displayed in the Status area by selecting the Status action bar choice:

```

Menu Utilities Compilers Options Status Help
-----
Option ==>                                ISPF Prim                                * . Session
                                           2. Function keys
                                           3. Calendar
                                           4. User status
                                           5. User point and shoot
                                           6. None

0 Settings      Terminal and user p
1 View          Display source data
2 Edit          Create or change so
3 Utilities     Perform utility fun
4 Foreground   Interactive language processing
5 Batch         Submit job for language processing
6 Command      Enter TSO or Workstation commands
7 Dialog Test  Perform dialog testing
9 IBM Products IBM program development products
10 SCLM        SW Configuration Library Manager
11 Workplace   ISPF Object/Action Workplace
12 z/OS System z/OS system programmer applications
13 z/OS User   z/OS user applications

Language . . : ENGLISH
Appl ID . . : ISR
TSO logon . . : CTP
TSO prefix: STNT329
System ID . . : CBT
MVS acct. . . : TRNG00P0
Release . . . : ISPF 7.5

Enter X to Terminate using log/list defaults
  
```

- Remember, the current option will be shown as unselectable; above we show the Session information in the status area

But you can request different information to display (options 2 through 5) or no information to display (option 6)

ISPF Status Area, continued

Session information

The fields displayed here are pretty self-explanatory, but you might not notice that System ID, MVS acct and Release are point-and-shoot fields (the color of the labels may be different)

Clicking on System ID shows a small window like this:

```
Menu Utilities Compilers Options Status Help
----- System Information -----
0  SYSPLEX = BLVBC
0  SYSNODE = NODETEST
1
2
3  Utilities      Perform utility functions
4  Foreground    Interactive language processing
5  Batch         Submit job for language processing
6  Command       Enter TSO or Workstation commands
7  Dialog Test   Perform dialog testing
9  IBM Products  IBM program development products
10 SCLM          SW Configuration Library Manager
11 Workplace     ISPF Object/Action Workplace
12 z/OS System   z/OS system programmer applications
13 z/OS User     z/OS user applications

Option Menu
eters
listings
data
User ID . . : STNT329
Time . . . : 17:53
Terminal . . : 3278
Screen . . . : 1
Language . . : ENGLISH
Appl ID . . : ISR
TSO logon : CTP
TSO prefix: STNT329
System ID : CBT
MVS acct. : TRNG00P0
Release . . : ISPF 7.5

Enter X to Terminate using log/list defaults
```

While clicking on MVS acct pops up a small window like this:

```
Menu Utilities Compilers Options Status Help
----- MVS Account Number -----
0
0  TRNG00P0
1
2
3  Utilities      Perform utility functions
4  Foreground    Interactive language processing
5  Batch         Submit job for language processing
6  Command       Enter TSO or Workstation commands
7  Dialog Test   Perform dialog testing
9  IBM Products  IBM program development products
10 SCLM          SW Configuration Library Manager
11 Workplace     ISPF Object/Action Workplace
12 z/OS System   z/OS system programmer applications
13 z/OS User     z/OS user applications

enu
User ID . . : STNT329
Time . . . : 14:04
Terminal . . : 3278
Screen . . . : 2
Language . . : ENGLISH
Appl ID . . : ISR
TSO logon : CTP
TSO prefix: STNT329
System ID : CBT
MVS acct. : TRNG00P0
Release . . : ISPF 7.5

Enter X to Terminate using log/list defaults
```

ISPF Status Area, continued

Clicking on Release produces something like this:

```

Menu Utilities Compilers Options Status Help
----- Environment -----
0  ZOS390RL = z/OS 02.05.00
   The z/OS release running on your system.
0
1  ZISPFOS  = ISPF FOR z/OS 02.05.00
2  The level of ISPF code that is running as part of z/OS on your
3  system. This might or might not match ZOS390RL.
4
5  ZENVIR   = ISPF 7.5 MVS TSO
6  The ISPF Environment description used by IBM personnel for
7  internal purposes. The x.y numbers DO NOT directly correlate to
9  an ISPF release number in all cases. Refer to the Dialog
1  Developer's Guide for a complete explanation.
1
1
1
1
-----
Enter X to Terminate using log/list defaults
0
0

```

All these fields are merely the values in various ISPF Dialog Variables

And you can build your own list of values to display, which we discuss in a bit

But first, some other choices for the status area ...

Selecting Function Keys yields a status area like this:

```

Menu Utilities Compilers Options Status Help
-----
Option ==>          ISPF Primary Option Menu          Enter option
0  Settings          Terminal and user parameters          No. of keys: 24
1  View              Display source data or listings      Keys / line: SIX
2  Edit              Create or change source data         Primary set: LOW
3  Utilities          Perform utility functions            Display set: PRI
4  Foreground        Interactive language processing      List name.  : ISRSAB
5  Batch              Submit job for language processing   List applid: ISR
6  Command           Enter TSO or Workstation commands    List type.  : PRIVATE
7  Dialog Test       Perform dialog testing               Keylists   . : PRIVATE
10 SCLM              SW Configuration Library Manager
11 Workplace         ISPF Object/Action Workplace Shell
12 z/OS System       z/OS system programmer applications
13 z/OS User         z/OS user applications
-----
Enter X to Terminate using log/list defaults

```

ISPF Status Area, continued

- ❑ The Calendar choice for the status area is surprisingly rich

First, if you select Calendar, you see something like this:

```
Menu Utilities Compilers Options Status Help
-----
Option ==>                ISPF Primary Option Menu                Enter option

0 Settings                Terminal and user parameters                <  Calendar  >
1 View                    Display source data or listings            June                2024
2 Edit                    Create or change source data              Su Mo Tu We Th Fr Sa
3 Utilities                Perform utility functions                  1
4 Foreground              Interactive language processing            2 3 4 5 6 7 8
5 Batch                    Submit job for language processing         9 10 11 12 13 14 15
6 Command                  Enter TSO or Workstation commands         16 17 18 19 20 21 22
7 Dialog Test              Perform dialog testing                    23 24 25 26 27 28 29
9 IBM Products              IBM program development products          30
10 SCLM                    SW Configuration Library Manager         Time . . . . : 5:57
11 Workplace              ISPF Object/Action Workplace             Day of year. : 165
12 z/OS System            z/OS system programmer applications
13 z/OS User                z/OS user applications

Enter X to Terminate using log/list defaults
```

- ❑ The really interesting behavior here is that every field in the Calendar status display is a point-and-shoot-field ...

Clicking on "<" displays last month, clicking on ">" displays next month, while clicking on the word "Calendar" displays the current month

But that is not all ...

ISPF Status Area, continued

If you click on the month name ("June" in the example), you get a window where you can select a month:

```

Menu Utilities Compilers Options Status Help
----- Calendar Month -----
0
0  Month . . . 06  1.  January
1                    2.  February
2                    3.  March
3                    4.  April
4                    5.  May
5                    6.  June
6                    7.  July
7                    8.  August
8                    9.  September
9                    10. October
10                   11. November
11                   12. December
1
1  Select a choice and press ENTER
-----
Option Menu
ters
listings
data
s
cessing
processing
commands
nctions
products
Manager
lace
<  Calendar  >
June 2024
Su Mo Tu We Th Fr Sa
      1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
Time . . . . : 05:57
Day of year. : 165
  
```

Or click on the year, and see a window to request any year supported in ISPF:

```

Menu Utilities Compilers Options Status Help
----- Calendar Year -----
0
0  Year . . .
1  Enter the year to display between 1801 and 2099
2
3
4
5
6  Command      Enter TSO or Workstation commands
7  Dialog Test  Perform dialog testing
9  IBM Products IBM program development products
10 SCLM         SW Configuration Library Manager
11 Workplace   ISPF Object/Action Workplace
12 z/OS System  z/OS system programmer applications
13 z/OS User    z/OS user applications
-----
Enter X to Terminate using log/list defaults
-----
<  Calendar  >
June 2024
Su Mo Tu We Th Fr Sa
      1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
Time . . . . : 05:57
Day of year. : 165
  
```

So you do not have to display this month's calendar, it can be any month between January, 1801 and December, 2099!

ISPF Status Area, continued

If you do not like the week starting on Sundays, you can choose Mondays or Saturdays to be the first day of the week

Just click on any day label ("Su", "Mo", ...) and you get ...

```

Menu Utilities Compilers Options Status Help
----- Calendar Start Day -----
0
0 Current start date : 1
1 New start date . . . 1 1. Sunday
2 2. Monday
3 3. Saturday
4 Select a choice and press ENTER
5
6
7
8
9
10
11 Workplace ISPF Object/Action Workplace
12 z/OS System z/OS system programmer applications
13 z/OS User z/OS user applications

Enter X to Terminate using log/list defaults

```

```

Menu
-----
< Calendar >
June 2024
Su Mo Tu We Th Fr Sa
  1
  2 3 4 5 6 7 8
  9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29
 30
Time . . . . : 05:57
Day of year. : 165

```

- On the other hand, if you click on any **actual date**, you will see that date converted into Julian:

```

Menu Utilities Compilers Options Status Help
----- Julian Date -----
0
0 2024/06/23 is day 175 of year 2024
1
2
3
4 Foreground Interactive language processing
5 Batch Submit job for language processing
6 Command Enter TSO or Workstation commands
7 Dialog Test Perform dialog testing
9 IBM Products IBM program development products
10 SCLM SW Configuration Library Manager
11 Workplace ISPF Object/Action Workplace
12 z/OS System z/OS system programmer applications
13 z/OS User z/OS user applications

Enter X to Terminate using log/list defaults

```

```

Menu
-----
< Calendar >
June 2024
Su Mo Tu We Th Fr Sa
  1
  2 3 4 5 6 7 8
  9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29
 30
Time . . . . : 05:57
Day of year. : 165

```

ISPF Status Area, continued

- ❑ Clicking on the "Time" label (or the actual time field) lets you choose a 12-hour clock or a 24-hour clock format for the display:

```
Menu Utilities Compilers Options Status Help
----- Calendar Time Format -----
0
0 Current time format : 1
1 New time format . . . 1 1. 12 hour format
2                               2. 24 hour format
3
4 Select a choice and press ENTER to continue
5
6
7
9
1
11 Workplace      ISPF Object/Action Workplace
12 z/OS System    z/OS system programmer applications
13 z/OS User      z/OS user applications

Enter X to Terminate using log/list defaults

< Calendar >
  June 2024
Su Mo Tu We Th Fr Sa
      1
  2  3  4  5  6  7  8
  9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29
 30
Time . . . . . : 05:57
Day of year. . : 165
```

- ❑ But wait, there's more ...

ISPF Status Area, continued

- You can have the Calendar application convert a Julian date to a Gregorian date, including the day of week

First click on the "**Day of year**" field, and you get a window that initially has the current date:

```
Menu Utilities Compilers Options Status Help
----- Standard Date -----
0
0 Enter the day and year below:
1 Day . . . . 165 (Between 1 and 365 or 366 if leap year) 024 >
2 Year . . . . 2024 (Between 1801 and 2099) Fr Sa
3
4 Day 165 of year 2024 is Thursday , 2024/06/13 7 8
5 14 15
6 21 22
7 28 29
9
1
11 Workplace ISPF Object/Action Workplace Day of year. : 05:57 165
12 z/OS System z/OS system programmer applications
13 z/OS User z/OS user applications

Enter X to Terminate using log/list defaults
```

Now simply type in a new day and year and press <Enter> to see the conversion ...

```
Menu Utilities Compilers Options Status Help
----- Standard Date -----
0
0 Enter the day and year below:
1 Day . . . . 060 (Between 1 and 365 or 366 if leap year) 24 >
2 Year . . . . 2008 (Between 1801 and 2099) 010 Fr Sa
3
4 Day 060 of year 2008 is Friday , 2008/02/29 7 8
5 14 15
6 21 22
7 28 29
9
1
11 Workplace ISPF Object/Action Workplace Day of year. : 05:57 165
12 z/OS System z/OS system programmer applications
13 z/OS User z/OS user applications

Enter X to Terminate using log/list defaults
```

- For example, here we can see that the year 2008 was a leap year (because the 60th day is the 29th of February) and that this date falls on Friday

ISPF Appointment Calendar

- An undocumented feature of the ISPF calendar is the ability to have ISPF keep track of appointments for you
- For this to work, you need to set a particular value in an ISPF variable called ZKIT

We have supplied two REXX execs in the TRAIN.LIBRARY data set to support this feature

X calendr - sets ZKIT to LO; support appointments

X uncal - sets ZKIT to null; turn off appointment support

- We'll talk about this later, but for now, here's a quick way to run these execs from the command line:

```
tso exec '_____'.train.library(calendr)' exec
```

Where '_____' represents the high level qualifier for the class files

ISPF Appointment Calendar, continued

- ❑ However you accomplish this, with the appointment calendar turned on, when you put the cursor on a date and press <Enter>, instead of seeing the date expressed as a Julian date, you will see a panel where you can enter one or more appointments for that date:

```
Menu Utilities Compilers Options Status Help
- ----- Day of year - 176 -----
0 File Options
0                                     More: +
1                                     ar      >
2                                     2024
3                                     Th Fr Sa
4                                     6 7 8
5                                     13 14 15
6                                     20 21 22
7                                     27 28 29
9                                     : 05:57
1                                     : 165
1 Enter END/RETURN/EXIT command to exit and save the note.
1 Enter CANCEL command to exit without saving the note.
```

- ❑ Key in the information you want for that date, like, say:

```
Menu Utilities Compilers Options Status Help
- ----- Day of year - 176 -----
0 File Options
0                                     More: +
1 Code review for project, room 320-A, 10:00 a.m.
2
3
4
5
6
7
9
1
1
1 Enter END/RETURN/EXIT command to exit and save the note.
1 Enter CANCEL command to exit without saving the note.
```

When you exit (probably PF3), you are back at the primary option menu but your appointment is saved

ISPF Appointment Calendar, continued

The File action bar menu item has three choices:

1. Delete this note
2. Cancel
3. Save and Exit

The Options action bar menu item has just one choice:

1. Change note color

- X If you choose this, you get a dialog to choose a color for the note from a list of choices
- X When you exit, the date on the calendar will have that color, so you can color code your appointments:

```
-----
Menu Utilities Compilers Options Status Help
-----
Option ==>                ISPF Primary Option Menu                Enter option

0 Settings                 Terminal and user parameters          <  Calendar  >
1 View                    Display source data or listings      June      2024
2 Edit                   Create or change source data         Su Mo Tu We Th Fr Sa
3 Utilities              Perform utility functions             1
4 Foreground            Interactive language processing       2 3 4 5 6 7 8
5 Batch                 Submit job for language processing    9 10 11 12 13 14 15
6 Command              Enter TSO or Workstation commands    16 17 18 19 20 21 22
7 Dialog Test          Perform dialog testing               23 24 25 26 27 28 29
9 IBM Products         IBM program development products    30
10 SCLM                SW Configuration Library Manager    Time . . . . : 05:57
11 Workplace          ISPF Object/Action Workplace        Day of year. : 165
12 z/OS System        z/OS system programmer applications
13 z/OS User          z/OS user applications

Enter X to Terminate using log/list defaults
```

So consider setting the color before you save and exit

ISPF SAREA Command

- ❑ Issue the SAREA command to get a pop-up window that displays the current status area values:

```

Menu Utilities Compilers Options Status Help
-----
  Status Options      F Primary Option Menu
0  -----
0  ISPF Status
0  Command ==>
1
2
3  User ID . . : STNT329
4  Time . . . : 18:00
5  Terminal . : 3278
6  Screen . . : 1
7  Language . : ENGLISH
9  Appl ID . . : ISR
1  TSO logon . : CTP
1  TSO prefix: STNT329
1  System ID . : ADCD
1  MVS acct. . : TRNG00P0
1  Release . . : ISPF 6.3

user parameters
e data or listings
nge source data
ty functions
anguage processing
r language processing
Workstation commands
g testing
evelopment products
ion Library Manager
ction Workplace
rogrammer applications
lications

          < Calendar >
          June 2024
          Su Mo Tu We Th Fr Sa
                2 3 4 5 6 7 8
          9 10 11 12 13 14 15
         16 17 18 19 20 21 22
         23 24 25 26 27 28 29
          30
Time . . . . : 05:57
Day of year. : 165

g log/list defaults
  
```

If you choose this window's Status action bar choice you will see the same choices as from the main panel Status choice, so you can change what's displayed in the SAREA pop-up

If you choose this window's Options action bar choice, you will see these four options:

```

Menu Utilities Compilers Options Status Help
-----
  Status Options      F Primary Option Menu
0  -----
0  IS      1. Calendar Start day...
0  Command 2. Calendar Colors...
1          3. User status customization...
2          4. User point and shoot customization...
3
4  User I
4  Time . . . : 18:00
5  Terminal . : 3278
6  Screen . . : 1
7  Language . : ENGLISH
9  Appl ID . . : ISR
1  TSO logon . : CTP
1  TSO prefix: STNT329
1  System ID . : ADCD
1  MVS acct. . : TRNG00P0
1  Release . . : ISPF 6.3

anguage processing
r language processing
Workstation commands
g testing
evelopment products
ion Library Manager
ction Workplace
rogrammer applications
lications

          Calendar >
          June 2024
          Mo Tu We Th Fr Sa
                2 3 4 5 6 7 8
          9 10 11 12 13 14 15
         16 17 18 19 20 21 22
         23 24 25 26 27 28 29
          30
Time . . . . : 05:57
Day of year. : 165

g log/list defaults
  
```

ISPF SAREA Command, continued

❑ If you select the Calendar Start day choice, you get the same pop-up discussed on page 12

❑ If you select Calendar colors, you see a pop-up like this:

```
Menu Utilities Compilers Options Status Help
-----
Status Options | F Primary Option Menu          Enter option
-----
0 - Calendar Colors ----- Defaults
0 C Change one or more of the Calendar colors and press enter to
1 immediately see the effect. Clearing a field restores defaults.
2
3
4 Field:          Color:      Valid Colors:   Sample:
5 Scroll Button . . . 8        1. White       < Calendar >
6 Heading Date . . . 8        2. Red        July 1995
7 Heading Text . . . 8        3. Blue       Su Mo Tu We Th Fr Sa
8 Weekday . . . . 8          4. Green
9 Saturday/Sunday . . 8      5. Pink
1 Current Day . . . . 8      6. Yellow
1                               7. Turq
1                               8. CUA default
1                               2  3  4  5  6  7  8
1                               9 10 11 12 13 14 15
1                               16 17 18 19 20 21 22
1                               23 24 25 26 27 28 29
1                               30 31
1                               Time . . . . : 10:10
1                               Day of year. : 202
```

Here, then, you can change the color scheme for the Calendar display

ISPF SAREA Command, continued

- ❑ Use the User Status Customization window to establish values to display if you choose the User status display for the status area:

```

Menu Utilities Compilers Options Status Help
-----
| Status Options | F Primary Option Menu | Enter option
|-----|-----|-----|
| User View Customization |
|
0  -  Enter a description and variable name below:
0  C
1    Description:      Variable name:
2    _____      _____
3    _____      _____
4    _____      _____
5    _____      _____
6    _____      _____
7    _____      _____
9    _____      _____
1   _____      _____
1   _____      _____
1   _____      _____
1   _____      _____
1   _____      _____
1   _____      _____
|--  Press EXIT or END to exit and save the changes.
     Press CANCEL to exit without saving the changes.

```

Calendar >						
June 2024						
Mo	Tu	We	Th	Fr	Sa	Su
						1
3	4	5	6	7	8	
10	11	12	13	14	15	
17	18	19	20	21	22	
24	25	26	27	28	29	

e : 05:57
of year . : 165

In the Description column, put any text you want, up to 12 characters

In the Variable name column, put the name of any ISPF dialog variable you want to display next to the text

- ✗ Note that if you have text on a Description line, you must have a dialog variable name on the line next to the text

- ❑ For this to be useful, you have to know what your choices are

Although there are more variables than we can cover here, the following page lists some possible dialog variables you might choose:

ISPF SAREA Command, continued

- Some ISPF dialog variables available for display:

<u>Name</u>	<u>Format / content</u>
Z	null value; useful when you need a placeholder
ZACCTNUM	MVS account number specified at logon
ZDATE	current date; format depends on settings; default: MM/DD/YY
ZDATESTD	current date; format varies; default: YYYY/MM/DD
ZJDATE	Julian date: yy.ddd
ZJ4DATE	Julian date: yyyy.ddd
ZSTDYEAR	current year as YYYY
ZDAYOFWK	name of day of week (8 characters)
ZAPPLID	current application id
ZOS390RL	current release level of z/OS you are running
ZSCRCUR	number of logical screens currently in use
ZSCRMAX	installation maximum number of logical screens per user
ZSCREEN	current screen's logical screen number
ZTIME	current time of day (hh:mm)
ZSCRNAME	current screen's assigned name

- Note that only the first 8 bytes of a value are displayed (so, for example, ZDATESTD only shows YYYY/MM/ and ZDAYOFWK for a Wednesday would only show "Wednesda")

These variables are also used in other places in ISPF where the full values may be used

- Total list is found in Appendix E of the ISPF Dialog Developers Guide:

https://www.ibm.com/docs/en/SSLTBW_3.1.0/pdf/f54dg00_v3r1.pdf

ISPF SAREA Command, continued

- ☐ Here is an example of what you might code for User status area:

```

Menu Utilities Compilers Options Status Help
----- User View Customization -----
0 -
0 C Enter a description and variable name below:
1 Description: Variable name:
2 current date ZDATE
3 current date ZDATESTD
4 current year ZSTDYEAR
5 Appl id ZAPPLID
6 z/OS ZOS390RL
7 current time ZTIME
9 --screens-- Z
1 current ZSCUR
1 max ZSCRMX
1 this screen ZSCREEN
1
Press EXIT or END to exit and save the changes.
Press CANCEL to exit without saving the changes.
Calendar >
June 2024
Mo Tu We Th Fr Sa
3 4 5 6 7 8
10 11 12 13 14 15
17 18 19 20 21 22
24 25 26 27 28 29
e . . . . . : 05:57
of year. : 165

```

And here is what the resulting display might look like:

```

Menu Utilities Compilers Options Status Help
----- F Primary Option Menu -----
0 Status Options
0 ISPF Status
0 Command ==>
1 user parameters
2 e data or listings
3 nge source data
4 ty functions
5 nage processing
6 r language processing
7 Workstation commands
8 g testing
9 evelopment products
1 ion Library Manager
1 ction Workplace
1 rogrammer applications
1 plications
1 g log/list defaults
current date 24/06/13
current date 2024/06/
current year 2024
Appl id ISR
z/OS z/OS 0
current time 17:57
--screens--
current
max 32
this screen 1
< Calendar >
June 2024
Su Mo Tu We Th Fr Sa
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
Time . . . . . : 05:57
Day of year. : 165

```

And, of course, you get this user status to display on the Primary Option Window by selecting User Status from the Status Action bar choice on that window

ISPF SAREA Command, continued

- Remember, you can issue the SAREA command from any command line, so you might want to build the user status area to contain info you might want to get to from anywhere in ISPF

```
Menu RefList RefMode Utilities Help
-----
O  Status Options
   -----
   ISPF Status
   Command ==>

E  current date 24/06/13
   current date 2024/06/
   current year 2024
   Appl id     ISR
D  z/OS        z/OS    0
   current time 17:57
   --screens--
   current
   max          32
   this screen  1
W

ta Set List Utility

ion          P Print data set list
            PV Print VTOC information

eters below:

lume        Enter "/" to select option
ace         /  Confirm Data Set Delete
trib        /  Confirm Member Delete
tal

layed, enter either:
mand field for the command prompt pop-up,
me of a TSO command, CLIST, or REXX exec, or
command.
```


ISPF SAREA Command, continued

- ❑ The last choice from the Options menu in the SAREA pop-up is for setting up your own point-and-shoot fields:

```

Menu Utilities Compilers Options Status Help
-----
  Status Options | F Primary Option Menu
0
0  IS      1. Calendar Start day...           Calendar >
0  Command 2. Calendar Colors...           June 2024
1      3. User status customization...     Mo Tu We Th Fr Sa
2      4. User point and shoot customization...
3
4  User I
4  Time. . . : 18:00                       language processing      2 3 4 5 6 7 8
5  Terminal. : 3278                         r language processing   9 10 11 12 13 14 15
6  Screen. . : 1                            Workstation commands    16 17 18 19 20 21 22
7  Language. : ENGLISH                       g testing               23 24 25 26 27 28 29
9  Appl ID . : ISR                           evelopment products    30
1  TSO logon : CTP                           ion Library Manager    Time . . . . . : 05:57
1  TSO prefix: STNT329                       ction Workplace       Day of year. : 165
1  System ID : ADCD                           rogrammer applications
1  MVS acct. : TRNG00P0                       plications
1  Release . : ISPF 7.5                       g log/list defaults
  
```

The pop-up you see is this

```

Menu Utilities Compilers Options Status Help
-----
                                User Point-and-Shoot -----
0
0  Enter Point-n-shoot text and SELECT keywords.
1
2  Point-n-shoot text:  SELECT service parameters:
3  _____
4  _____
5  _____
6  _____
7  _____
9  _____
1  _____
1  _____
1  _____
1  _____
1
1  Press EXIT or END to exit and save the changes.
1  Press CANCEL to exit without saving the changes.
  
```

Place text in the first column and ISPF service requests in the second column; on display, the text shows in the status area and clicking on the text invokes the ISPF service

- ✗ Way beyond the scope of this course (consider the course "Developing Dialog Manager Applications in z/OS")

Computer Exercise: Working With the Status Area

Get into ISPF and experiment with various alternatives for the status area. Set the combination of options that work best for you. Some suggestions:

1. Display all status options.
2. With the calendar option showing, test various point and shoot fields. Answer this question: what day of the week is March 19, 2026?
3. From the command line, run this exec:

```
tso exec '_____.train.library(calendr)' exec
```

this turns on the appointment book feature. Enter some appointments. Experiment with coloring the dates differently.

Note: this setting is remembered across logons, unless you timeout before logging off. To turn off the appointment book feature, run this from an ISPF command line:

```
tso exec '_____.train.library(uncal)' exec
```

4. Time and interest permitting, set some user variables to display in your status area.

Before you leave ISPF, set the status area default the way you prefer to work with it. Be sure to exit and logoff, so your setting will be remembered.