NewEra Software - The zExchange July 28, 2015

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Abstract

Do you have a hard time configuring ISPF? Do you want to create the same ISPF look and feel for your users? Would you like to set up ISPF for better performance? If you answered 'YES' to any of these questions, this session is for you! Come to this session to learn how to configure ISPF for lean and mean operation. Teach ISPF to dance to your tune, for a change! In this session, the speaker will also include an online demonstration and a real-time ISPF configuration session.

Agenda

- ISPF Configuration History
- ISRCONFG The "Old" Way
- ISPCCONF The "New" Way
- ISPCCONF Dialog Setup
- Create and Compile the Keyword File
- Convert ISRCONFG to ISPCCONF
- (DON'T) Build SMP/E Usermod
- Recover Keyword File from ISPCFIGx

Agenda

The WAC ISPF Configuration

Summary

Finally...

ISPF Configuration History

- In the past, ISPF Configuration was difficult because configuration data was stored in many places and code referencing it was inconsistent
 - ISRCONFG load module
 - ISPSPROF system default table
 - ISREDIT edit profile table ZDEFAULT profile
 - Hard-coded defaults in various ISPF load modules

ISPF Configuration History

- Unfortunately, ISRCONFG, ISPSPROF, and ISREDIT didn't control all ISPF configuration items
- Problems were difficult to diagnose because you never knew where ISPF would get the information
- Sometimes hard-coded default would override your explicit specification
- Configuring ISPF began with creating SMP/E usermod installing ISRCONFG load module, but there were problems with this method

ISRCONFIG - The "Old" Way

- ISRCONFG was placed in target ISP.SISPLPA by default, so without further SMP/E customization, ISPF defaults only took effect after IPL with CLPA
- ISRCONFG did not create defaults for all ISPF settings, so ISPF configuration table members ISPSPROF and ISREDIT in ISP.SISPTENU had to be customized

ISRCONFIG - The "Old" Way

- ISPF administrator would perform these tasks to customize ISPSPROF and ISREDIT:
 - Execute each ISPF panel to change ISPSPROF settings (e.g. scroll values, etc.)
 - Run an edit session using profile ZDEFAULT to change ISREDIT settings
- An SMP/E usermod was then created to add updated ISPSPROF and ISREDIT to the system
- Unfortunately, some ISPF modules ignored ISRCONFG, ISPSPROF, ZDEFAULT, etc., so they used their own hard-coded defaults

ISPCCONF - The "New" Way

- Since ISPF configuration was too complex and error prone, the ISPF Configuration Dialog, ISPCCONF, was introduced with OS/390 V2R8
- ISPCCONF was designed to combine ISRCONFG, ISPSPROF, and ISREDIT ZDEFAULT settings into single load module ISPCFIGU (VSAM configuration load module ISPCFIGV also created if VSAM keywords specified by ISPF administrator)

ISPCCONF - The "New" Way

- ISPCCONF is half the solution, the other half is ISPF code modified to honor ISPCCONF
- While ISPSPROF and ISREDIT are still distributed in ISP.SISPTENU, they are empty members only used as placeholders
- If you still want to use ISPSPROF and ISREDIT, they will override ISPCFIGU module, but this method is NOT RECOMMENDED
- Field-level help available so you can make correct configuration decision

ISPCCONF Dialog Setup

- To setup ISPCCONF dialog, allocate keyword file (text file of options) that will be used to generate load modules ISPCFIGU and ISPCFIGV containing ISPF defaults
- The keyword file must be PDS(E), and have minimum record length of 255 for variable format, or 251 for fixed format records
- For space, CYL,(1,1,45) should allow enough room and directory space to store multiple members for testing and backup purposes

ISPCCONF Dialog Setup

- ISPCCONF is default part of ISPF
- It can be executed by any user
- Be sure to secure LINKLIST, LPA, or any other candidate loadlib datasets to prevent unauthorized user from either accidentally or deliberately changing ISPF defaults

- After setting up ISPCCONF, you can proceed to creating and compiling keyword file
- Enter "TSO ISPCCONF" on command line or "ISPCCONF" from ISPF option 6
- The ISPF Configuration Utility menu is displayed, showing last keyword file you worked with
- NOTE: The following screen shots were taken from z/OS V2R1 system; some fields shown may not be applicable to lower levels of ISPF

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ISPF Configuration Utility Option ===>
1 Create/Modify Settings and Regenerate Keyword File 2 Edit Keyword File Configuration Table 3 Verify Keyword Table Contents 4 Build Configuration Table Load Module 5 Convert Assembler Configuration Table to Keyword File 6 Build SMP/E USERMOD 7 Convert Configuration Table Loadmod to Keyword File
Keyword File Data Set Data Set <u>'IBMUSER.ISPF.KEYWORD.PDSE'</u> Member <u>NEWERA</u>
Configuration Table Assembler Source Data Set Data Set Member
Output File Content for Keyword File 2 1. Include only non-default values 2. Include defaults as comments 3. Include all values
Current Configuration Table Keyword File : IBMUSER.ISPF.KEYWORD(DEFAULT) Identifier . : ISPCFIGU Level : 480R8001 Compile Date : 2015/05/14 Compile Time : 12:15

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- Menu displays current ISPF configuration table, keyword file that generated it, and date and time it was compiled
- Recommend default for Output File Content for Keyword File is option 2, "Include defaults as comments"
- All ISPF configuration options will be displayed in keyword file, with defaults commented out
- This clearly shows customized configuration items

- Enter dataset name and member name of keyword file
- Pick meaningful member name (e.g. date of keyword member, function like TEST or PROD, DEFAULT for regular options, etc.)
- Enter option 1, Create/Modify Settings and Regenerate Keyword File
- Hit enter to display Create/Modify ISPF Configuration

	Create and Compile Keyword File	
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	Option ===> Create/Modify ISPF Configuration Defaults loaded	
	General ISPF Settings 1 Editor Settings 2 Edit/View/Browse VSAM Settings 3 PDF Exits and Other PDF Settings 4 ISPF Site-wide Defaults 5 ISPDFLTS, CUA Colors, and Other DM Settings System Profile (ISPSPROF) Settings 6 Log and List Defaults 7 Terminal and User Defaults 8 Workstation Defaults 9 Workstation Download Defaults 5 ISPDFLTS, CUA Colors, and Other DM Settings	
	Output Keyword File Data Set <u>'IBMUSER.ISPF.KEYWORD.PDSE'</u> Member <u>NEWERA</u>	
	Instructions: Enter option to change configuration settings, END or EXIT command to generate keyword file, or CANCEL command to exit without keyword file generation	

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- Note the message "Defaults loaded"; this indicates creation of new keyword member NEWERA
- If modifying an existing keyword member, "Keyword file loaded" will be displayed instead
- Enter 1, Editor Settings, to bring up Modify PDF Edit Configuration Settings

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- After modifying the PDF Edit Options, hit PF3 to return to Create/Modify ISPF Configuration Menu
- Select option 3 to Modify PDF Configuration Settings

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- After modifying PDF Configuration Settings, hit PF3 to return to Create/Modify ISPF Configuration Menu
- Select option 4 for Modify ISPF Sitewide Defaults

<u>File Edit Font Transfer Macro Options Window Help</u>

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Modify ISPF Sitewide Defaults

Command ===>

More:

If you select any RESET fields in the sections: ISPF Site-wide Defaults, CUA Color Settings, Log and List Defaults, Terminal and User Defaults, Workstation Defaults, or Workstation Download Defaults you must increment the Sitewide Defaults Version Level field to enable the RESET fields you have selected. Increment only the last 3 digits of the Sitewide Defaults Version Level. ISPF is always shipped with the Sitewide Defaults Version Level field set to 43000. This value does not change with new versions or releases of ISPF.

Sitewide Defaults Version Level . . 43000

General settings Enter "/" to select option Tab to Point and Shoot / Tab to Action Bars Use Session Manager 7 Jump From Leader Dots 7 Always Show Split Line 7 Long Messages in Pop-ups Edit PRINTDS Command 7 Restore Test/Trace Options 7 Display Panels in CUA Mode 7 Use Keylists 7 Show Pfkeys Select Option 7.1 Dialog Test Panel

- 1 1. ISPYFP
 - 2. ISPYFPA
 - 3. ISPYFPB

Reset flags

Enter "/" to select option

- _ Reset Tab to Point and Shoot
- _ Reset Tab to Action Bars
- _ Reset Use Session Manager
- _ Reset Jump From Leader Dots
- _ Reset Show Split Line
- _ Reset Long Messages in Pop-ups
- _ Reset Edit PRINTDS Command
- _ Reset Restore Test/Trace Options
- _ Reset Display Panels in CUA Mode
- _ Reset Use Keylists
- Reset Show Pfkeys
- Reset LOG Data Set Process Option
- Reset LIST Data Set Process Option
- Reset Command Line Placement

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- After going through all ISPF options, hit PF3 (END) to save keyword file
- View screen displayed showing keyword file and all customized options
- Hit PF3 (END) to leave keyword file display
- Message "Keyword file saved" displayed on ISPF Configuration Utility menu

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	/* Created 23:14:49 on 7 Aug 2014	*/	
	/* by user TCONLEY.	*/	
	<pre>/* Defaults were included as comments.</pre>	*/	
000005		*/	
000006	OUTLIST_BLOCK_SIZE EDIT_RECOVERY_BLOCK_SIZE		
000007	EDIT_RECOVERY_BLOCK_SIZE	= 32760	
	DSLIST_RM_ENABLED	= YES	
000009	STATS_EXT_ENABLED	= YES	
000010	VSAM_EDIT_ENABLED	= YES	
	VSAM_BROWSE_ENABLED	= YES	
	VSAM_VIEW_ENABLED	= YES	
	STATS_EXT	= 0N	
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	FORCE_RECOVERY	= YES	
	HILITE	= 0N	
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	LOG_DATA_SET_DISPOSITION	= 0	
	LIST_DATA_SET_DISPOSITION	= D	
	COMMAND_LINE_PLACEMENT	= ASIS	
	USE_KEYLISTS	= NO	
	SHOW_PFKEYS	= OFF	
	SCROLL_DEFAULT	= CSR	

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- Option 2 Edit Keyword File Configuration Table NOT RECOMMENDED; use ISPCCONF menu to create syntactically correct keyword file
- Option 3 Verify Keyword Table Contents ensures syntactically correct keyword file
- Option 4 Build Configuration Table Load Module creates ISPCFIGU and ISPCFIGV modules from the keyword file
- Entering '4' brings up following pop-up menu

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_ 0 <u>×</u> **ISPF** Configuration Utility Build Configuration Table Load Module Command ===> Input Keyword File Data set Data Set . . . <u>'IBMUSER.ISPF.KEYWORD.PDSE'</u> Member . . . <u>NEWERA</u> Output Configuration Table Load Module Data Set Data Set . . . Optional fields (leave blank for ISPF to use defaults) Object data set . . . _ Configuration member Defaults to ISPCFIGU (Defaults to ISPCFIGV) VSAM member 2. Include defaults as comments 3. Include all values Current Configuration Table Keyword File : IBMUSER.ISPF.KEYWORD(DEFAULT) Identifier . : ISPCFIGU Level . . . : 480R8001 Compile Date : 2015/05/14 Compile Time : 12:15

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- Recommend linklist load library for easy installation and maintenance in production; new defaults can be set with "F LLA,REFRESH" MVS command
- Testing with user loadlib before production will be shown in demo later
- Use default values for everything else
- Hit Enter to generate load modules
- Note message "Load module built"

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Convert ISRCONFG to ISPCCONF

- Option "5" on ISPCCONF menu converts ISRCONFG to keyword table
- Not really relevant today, but if you have ISRCONFG source laying around and you've never run ISPCCONF...
- Assembler source for ISRCONFG MUST be assembler source
- ISRCONFIG usermod with JCL and SMP/E wrapped around it will not be recognized by ISPCCONF

(DON'T) Build SMP/E USERMOD

- Unfortunately, option "6", Build SMP/E USERMOD, is not suitable for use
- The FMID, target, and DLIB datasets must be specified manually, and are not checked for accuracy
- While syntactically correct USERMOD is built, ++DATA and ++PROGRAM elements ISPCFIGx are not shipped by ISPF
- USERMOD will not notify you of regression when ISPCCONF maintenance is applied

(DON'T) Build SMP/E USERMOD

- Dialog uses superseded USERMODs, but USERMODs are RESTOREd and re-APPLY'd, not superseded
- A PRE field should be supplied for prerequisite ISPF maintenance, but you have to add that manually
- Do not use USERMOD option; rely on ISPF service to issue HOLDDATA for PTFs requiring ISPCCONF to rebuild ISPCFIGx
- Open a PMR if they forget!

Recover Keyword File from ISPCFIGx

- New for z/OS V2R1, OA42680 added new option 7, Convert Configuration Table Loadmod to Keyword File
- Keyword file can be recovered if (when?) ISPF keyword file is lost or misplaced
- Very hot requirement!

Recover Keyword File from ISPCFIGx

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Recover Keyword File from ISPCFIGx

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Specify Input

Command ===>

Input Data Set Name

Input Member

Instructions: Press Enter to perform conversion against the in-storage configuration module. Alternatively enter a fully qualified data set name and member name. The member name defaults to ISPCFIGU if not entered.

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 Enter specific load module dataset and member name, or simply hit Enter to decompile ISPCFIGx module(s) in memory

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00021ALLOW_DATA_SET_CREATION_FOR_MOVE_COPY=YES00022ALLOW_EDIT_HIGHLIGHTING=YES00023ALLOW_SUBMIT_FROM_BROWSE=YES00024ALLOW_SUBMIT_FROM_VIEW=YES00025ALLOWED_ALLOCATION_UNITS=ANY00026APPLID_FOR_SITE_COMMAND_TABLE=SIT100027APPLID_FOR_USER_COMMAND_TABLE=USR100028ASPECT_RATIO=000029AUTOLIST=OFF00031AUTOSAVE=ON00032AUTOSAVE_PROMPT=OFF00033BLOCK_SIZE_FOR_TEMPORARY_CNTL_DATA_SETS=000035BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS=0	000020	ALLOW_	DATA_SET_CREAT	ION_FOR_CREA	TE_REPLACE	E =	YES		
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00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	200022	ALLOW_	EDIT_HIGHLIGHT	ING		=	YES		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000023	ALLOW_	SUBMIT_FROM_BR	OWSE		=	YES		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000024	ALLOW_	SUBMIT_FROM_VI	EM		=	YES		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000025	ALLOWE	D_ALLOCATION_U	NITS		=	ANY		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000026	APPLID	_FOR_SITE_COMM	AND_TABLE		=	SIT1		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000027	APPLID	_FOR_USER_COMM	AND_TABLE		=	USR1		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	200028	ASPECT	_RATIO			=	0		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000029	AUTOLI	ST			=	OFF		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000030	AUTONU	M			-	OFF		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000031	AUTOSA	VE			=	ON		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000032	AUTOSA	VE_PROMPT			_	PROMPT		
00035 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	000033	BLOCK_	SIZE_FOR_TEMPO	RARY_CNTL_DA	IA_SETS	-	0		
00036 BROWSE_FTP_ERRORS = 0	000034	BLOCK_	SIZE_FOR_TEMPO	RARY_LIST_DA	IA_SETS	-			
TOUSE BROWSE_FIP_ERRORS = YES	000035	BLUCK_	SIZE_FUR_TEMPO	KHKY_WOKK_DA	TH_SETS	_			
	000036	BRUWSE	_FTP_ERRURS				YES		

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- Resulting keyword file is simply alphabetical list of ISPF options
- In normal keyword file, options are grouped by function, with descriptive comments
- To create more usable keyword file, use this recovered keyword file to generate new keyword file
- Select option 1 from the ISPCCONF main menu to load recovered keyword file

👷 zPDT				
<u>File Edit Font Transfer Macro Options Window</u>	<u>H</u> elp			
	_ Create/Modify IS	PF Configuration Keyword fi		
	Option ===>	Fi configuration Reguora ii	le loaded	
	option ===/			
	General ISPF Settings	System Profile (ISPSPROF) Setti		
	1 Editor Settings	6 Log and List Defaults		
	2 Edit/View/Browse VSAM Settings	7 Terminal and User Defaults		
	3 PDF Exits and Other PDF Settings	8 Workstation Defaults		
	4 ISPF Site-wide Defaults	9 Workstation Download Defaults	5	
	5 ISPDFLTS, CUA Colors, and Other			
	DM Settings			
	5. Octolige			
	Output Keyword File			
	Data Set IBMUSER.ISPF.KEYWOR	D.PDSE'		
	Member <u>NEWERA</u>			
	Instructions:			
	Enter option to change configuratio			
	END or EXIT command to generate key			
	CANCEL command to exit without keyw	ord file generation		
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- Note the "Keyword file loaded" message
- To generate the new keyword file, enter the END command (PF3 in most sites)

😪 zPDT <u>File E</u>dit Fo<u>nt Transfer M</u>acro <u>O</u>ptions <u>W</u>indow <u>H</u>

Longung Million Lange Handings, Readings	
lacro Options <u>W</u> indow <u>H</u> elp	
<u>F</u> ile <u>E</u> dit E <u>d</u> it_Settings <u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>T</u> est <u>H</u> elp	
VIEW IBMUSER.ISPF.KEYWORD.PDSE(NEWERA) - 01.00 Columns 00001 00072	
Command ===> Scroll ===> CSR	
****** *******************************	
000001 /* ISPF Configuration table definition. Generated by REXX ISPCMOD	
000002 /* Created 01:00:26 on 28 Jul 2015 */	
000003 /* by user IBMUSER. */	
000004 /* Defaults were included as comments. */	
000005 /*	
000006 OUTLIST_BLOCK_SIZE = 0	
000007 OUTLIST_PRIMARY_QUANTITY = 2	
000008 OUTLIST_SECONDARY_QUANTITY = 1	
000009 EDIT_RECOVERY_BLOCK_SIZE = 32760	
000010 DSLIST_RM_ENABLED = YES	
000011 UNDO_STORAGE_SIZE = 1024	
000012 STATS_EXT_ENABLED = YES	
000013 RECOVERY = ON	
000014 FORCE_RECOVERY = YES	
000015 FORCE_SETUNDO = YES 000016 HILITE = ON	
000016 HILITE = ON 000017 HILITE_DOLOGIC = ON	
000018 HILITE_IFLOGIC = ON	
000019 HILITE_PAREN = 0N	
ØØØØ2Ø HILITE FIND = OFF	
000021 TAB_TO_ACTION_BARS = NO	
000022 LOG_DATA_SET_DISPOSITION = D	
000023 LIST_DATA_SET_DISPOSITION = D	
000024 COMMAND_LINE_PLACEMENT = ASIS	
000025 USE_KEYLISTS = NO	
000026 SHOW_PFKEYS = OFF	
000027 SCROLL_DEFAULT = CSR	
000028 SCROLL_MAX = 9999999	
000029 DISPLAY_EMPTY_MEMBER_LIST = YES	
000030 DISPLAY_EMPTY_MEMBER_LIST_PATTERN = YES	
000031 STATUS_AREA_DEFAULT = CAL	
000032 LIST_DATA_SET_RECORDS_PER_BLOCK = 231	
000033 LOG_DATA_SET_BLOCK_SIZE = 0	
000034 BLOCK_SIZE_FOR_TEMPORARY_CNTL_DATA_SETS = 0	
000035 BLOCK_SIZE_FOR_TEMPORARY_LIST_DATA_SETS = 0	
000036 BLOCK_SIZE_FOR_TEMPORARY_WORK_DATA_SETS = 0	
000037 ISPCTLO_BLOCK_SIZE = 0	
000038 USE_ADDITIONAL_QUAL_FOR_PDF_DATA_SETS = YES	

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File	Edit	Font	Transfer	Macro	Ontions	Window	Help

<u>F</u> ile <u>E</u> dit E <u>d</u> it_Settings <u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>T</u> est <u>H</u> elp
FileEditEdit_SettingsMenuUtilitiesLompilersLestHelp/IEWIBMUSER.ISPF.KEYWORD.PDSE(NEWERA) - 01.00ColumnsColumns0000100072Command ===>Scroll ===>CSR000030ISPF_TEMPORARY_DATA_SET_QUALIFIER=S&SYSNAME000040PROFILE_SHARING=YES000041USE_ALTERNATE_DIALOG_TEST_PANEL=000042ACTION_BAR_SEPARATOR_LINE=000043APPLID_FOR_USER_COMMAND_TABLE=000044APPLID_FOR_SITE_COMMAND_TABLE=000045RETRIEVE_COMMAND_STACK_SIZE=000046ENABLE_XTIOT=000047LOG_MESSAGE_ID=000050LIST_PAGES_SECONDARY_QUANTITY=000052SCREEN_FORMAT=000053TERMINAL_TYPE=000054DEFAULT_MESSAGE_ID=000055DEFAULT_MESSAGE_ID=000056DEFAULT_MESSAGE_ID=000056DEFAULT_MESSAGE_ID=000057DEFAULT_MESSAGE_ID=000058/*
Command ===>Scroll ===> <u>CSR</u>
000039 ISPF_IEMPORARY_DATA_SET_QUALIFIER = S&SYSNAME
100040 PRUFILE_SHRKING
100041 OSE_HEIERNHIE_DINEUSI_PHNEL = 2 200 /*Yallaw law Napa *
ADD042 ADD ID FOR USER COMMAND TARIF = USE1
000045 RETRIEVE COMMAND STACK SIZE = 4096
000046 ENABLE_XTIOT = YES
000047 LOG_MESSAGE_ID = YES
000048 LOG_PAGES_PRIMARY_QUANTITY = 0
000049 LOG_PAGES_SECONDARY_QUANTITY = 0
100050 LIST_PAGES_PRIMARY_QUANTITY = 1
000051 LIST_PAGES_SECONDARY_QUANTITY = 2
000057 DEFAULT LIBDEF PROCESSING OPTION = STACK
900058 /*
000059 /* The following values match the ISPF Defaults *
00066 /*
000061 /**.
00062 /* PDF EXITS *
100064 /*DHTH_SET_HELOCATION_PROGRAM_EXIT = NUNE *
100065 /*PRINT_UTILITY_PRUGRHM_EXIT = NUNE *
000069 /*DATA SET LIST FILTER PROGRAM EXIT = NONE*
000070 /*MEMBER_LIST_FILTER_PROGRAM_EXIT = NONE *
000071 /*DATA_SET_NAME_CHANGE_PROGRAM_EXIT = NONE*
000072 /*DATA_SET_LIST_LINE_COMMAND_PROGRAM_EXIT = NONE*
000073 /*ACTIVITY_MONITORING_PROGRAM_EXIT = NONE*
000074 /*MEMBER_LIST_LINE_COMMAND_PROGRAM_EXIT = NONE*
000075 /*MEMBER_LIST_LINE_COMMAND_COMMAND_EXIT = NONE *
D000001/*
000077 /* DATA SET ALLOCATION SETTINGS *.

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- Note that new keyword file has flowerbox documentation around major sections
- Defaults now commented out, if that was specified on ISPCCONF main menu
- Enter END (PF3) again to save keyword file

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Fil	Edit	Font	Transfer	Macro	Ontions	Window	Help

nsfer	Macro Option	ns Window	Help
			ISPF Configuration Utility Keyword file saved
			Option ===>
			1 Create/Modify Settings and Regenerate Keyword File 2 Edit Keyword File Configuration Table 3 Verify Keyword Table Contents 4 Build Configuration Table Load Module
			5 Convert Assembler Configuration Table to Keyword File 6 Build SMP/E USERMOD 7 Convert Configuration Table Loadmod to Keyword File
			Keyword File Data Set Data Set <u>'IBMUSER.ISPF.KEYWORD.PDSE'</u> Member <u>NEWERA</u>
			Configuration Table Assembler Source Data Set Data Set Member
			Output File Content for Keyword File <u>2</u> 1. Include only non-default values 2. Include defaults as comments 3. Include all values
			Current Configuration Table Keyword File : IBMUSER.ISPF.KEYWORD(DEFAULT) Identifier . : ISPCFIGU Level : 480R8001 Compile Date : 2015/05/14 Compile Time : 12:15

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- Following is WAC (World According to Conley) method for configuring ISPF
- Recommendations for settings to improve ISPF performance and usability
- If these settings work for you and you agree with them, great!
- If not, don't hesitate to do something else if it's appropriate for your installation (Your Mileage May Vary!)

Option 1, Editor Settings

- Enter 1024 for Undo Storage Size to enable SETUNDO KEEP (undo changes across SAVE)
- Enter "/" for Enable Extended Statistics
- Change edit recovery dataset blocksize to 32760 for better performance and space utilization
- For edit options, enter "/" on STATS EXT for extended statistics, RECOVERY ON (safety, recovery, investment protection), uncheck NUMBER ON and change NULLS to NULLS ON ALL (increase user productivity in EDIT)

Option 1, Editor Settings (cont'd)

- Consider entering "/" to force RECOVERY ON setting (this is the only ISPF config parm that I recommend forcing or overriding)
- In Edit Highlighting, enter "/" for HILITE ON, Highlight DO/END logic, Highlight IF logic, and Match parentheses (user productivity, but higher overhead; testing shows about an 8X increase in service units for HILITE, but there's no user-visible degradation)
- Uncheck highlight FIND strings (personal preference, a lot of hits on one screen make data hard to read)

Result of FORCE Selection

Pinnacle zPDT <u>File Edit Font Transfer Macro Options Window H</u>elp

<u>T</u> ransfer <u>M</u> acro <u>O</u> ptions <u>W</u> indow	<u>H</u> elp								
	File	Edit	Edit Setti	.nas Menu	Utilities	<u>C</u> ompilers	Test	Help	
	EDIT	US	BER.ISPPLIB	ISR@PRIM)	- 01.00		Pr	ofile over	ridden
	Command	===>						Scroll ===:	
	*****	*****	*******	*******	*** Top of [)ata ******	*****	*********	*****
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	ISRE23	8 Ht I	least one pr	ofile att	ribute was (overridden b as installed	y the	site wide	****
	defaul	τs whi	ich were est	ablished	when ISPF Wa	as instailed	•		***
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- Option 2, Edit/View/Browse VSAM Settings
 - By default, VSAM Edit/View/Browse disabled
 - Command defaults set for IBM's File Manager
 - If you have VSAM Edit/View/Browse tool, enter its commands here to enable Edit/View/Browse for VSAM

Option 3, PDF Exits and Other PDF Settings

- Specify 0 (zero) for Outlist Utility Block Size to get SDB OUTLIST datasets
- Specify "/" for Enable RM/Tape Commands, and specify appropriate RM/Tape Command and APPLID for your Tape Management System software (defaults are set for IBM's Removable Media Manager - DFSMSrmm)
- If running storage manager other than HSM, modify the Volume for Migrated Data Sets and Delete Command for Migrated Data Sets fields for correct values

- Option 4, ISPF Sitewide Defaults
 - Uncheck Tab to Action Bars, uncheck Use Keylists, uncheck Show Pfkeys
 - Set Select Option 7.1 Dialog Test Panel to ISPYFPA, set Command Line Placement to Asis, set Scroll Default to CSR, set Status Area Default to Calendar
 - New for z/OS V2R1, change Maximum Scroll Value to 9999999
 - For Empty Member List support, check Allow Empty Member List and Allow Empty Member List (nomatch)

Option 4, ISPF Sitewide Defaults (cont'd)

- Set List Data Set Records per Block to 231 for a 3390 (LRECL 121 * 231 = 27951, half-track for a 3390)
- Specify 0 (zero) for all ISPF dataset blocksizes to get SDB
- For LOG Data Set Process Option and LIST Data Set Process Option, specify "3" to Delete Without Printing (eliminates LOG/LIST prompt upon exiting ISPF)
- Enter "/" for Use Additional Qualifier for PDF Output Data Sets

Option 4, ISPF Sitewide Defaults (cont'd)

- For multisystem and multiple logon support, specify SYS&SYSNAME Additional Temporary Data Set Qualifier to create LPAR-unique temporary dataset names and eliminate need for ISPF exit 16
- Specify "/" for Multi-logon Profile Sharing (required to support OSMF's multiple ISPF window facility)
- To enable multiple logon support, create shared ISPF profile dataset and modify logon exec to allocate it

- Option 4, ISPF Sitewide Defaults (cont'd)
 - For more information regarding multiple logon, refer to my article in Enterprise Systems Journal:

Simultaneous Logons to Multiple LPARs in a Sysplex

 New for z/OS V2R1, you can enter an initial command for ISPF to process

- Option 5, ISPDFLTS, CUA Colors, and Other DM Settings
 - New for z/OS V2R1, Enable XTIOT support in ISPF (requires NON_VSAM_XTIOT in DEVSUPxx)
 - Set SITE for Site Command Table 1
 - Set USER for User Command Table 1
 - Set Retrieve Command Stack Size to 4096
 - Set the Default Primary Panel to ISR@PRIM
 - Set the Default LIBDEF Processing Option to STACK
 - Change Action Bar Separator Line to color to Yellow (6)

- Option 6, Log and List Defaults
 - Create valid Log/List job cards
 - Set the Log Primary and Secondary Quantity to 0
 - Enter "/" for Message ID
 - Set the List Primary and Secondary Quantity to 1

Option 7, Terminal and User Defaults

- Set Screen Format to MAX (take advantage of larger screen sizes), set Terminal Type to "6" for 3278T (better character set for square brackets, etc.)
- Set Number of Keys to "2" for 24
- Enter "/" for Message Identifier field to assist debugging

- Option 8 Workstation Defaults can remain unchanged
- Option 9 Workstation Download Defaults can remain unchanged
- That's the WAC ISPF Configuration!

DEMO TIME!

- Create ISPCFIGU module in private user loadlib and test for completeness
 - Generate ISPCFIGU module in user loadlib
 - Return to READY
 - Rename existing profile dataset (assumes LOGON exec or exec invoking ISPF allocates new profile so ISPCFIGU will populate new defaults)
 - Issue TSOLIB command to activate the user loadlib
 - Issue CLIST to allocate new profile dataset and invoke ISPF

DEMO TIME!

- Synchronize your watches
- Time me
- GO!

Summary

- Discussed ISPF Configuration History
- Reviewed ISRCONFG method for customizing ISPF
- Introduced ISPCCONF dialog for customizing ISPF
- Demonstrated how to Create and Compile keyword file
- Showed how to convert from ISRCONFG to ISPCCONF
- Discussed Miscellaneous Topics such as SMP/E usermod

Summary

- Discussed recovery of a keyword file from ISPF Configuration Load Module
- Discussed WAC (World According to Conley) method for configuring ISPF

Finally...

I'm interested in hearing about your ISPCCONF experiences, positive or negative; if you encounter any unique situations or problems using ISPCCONF to configure ISPF, please let me know about them by sending an Email to pinncons@rochester.rr.com