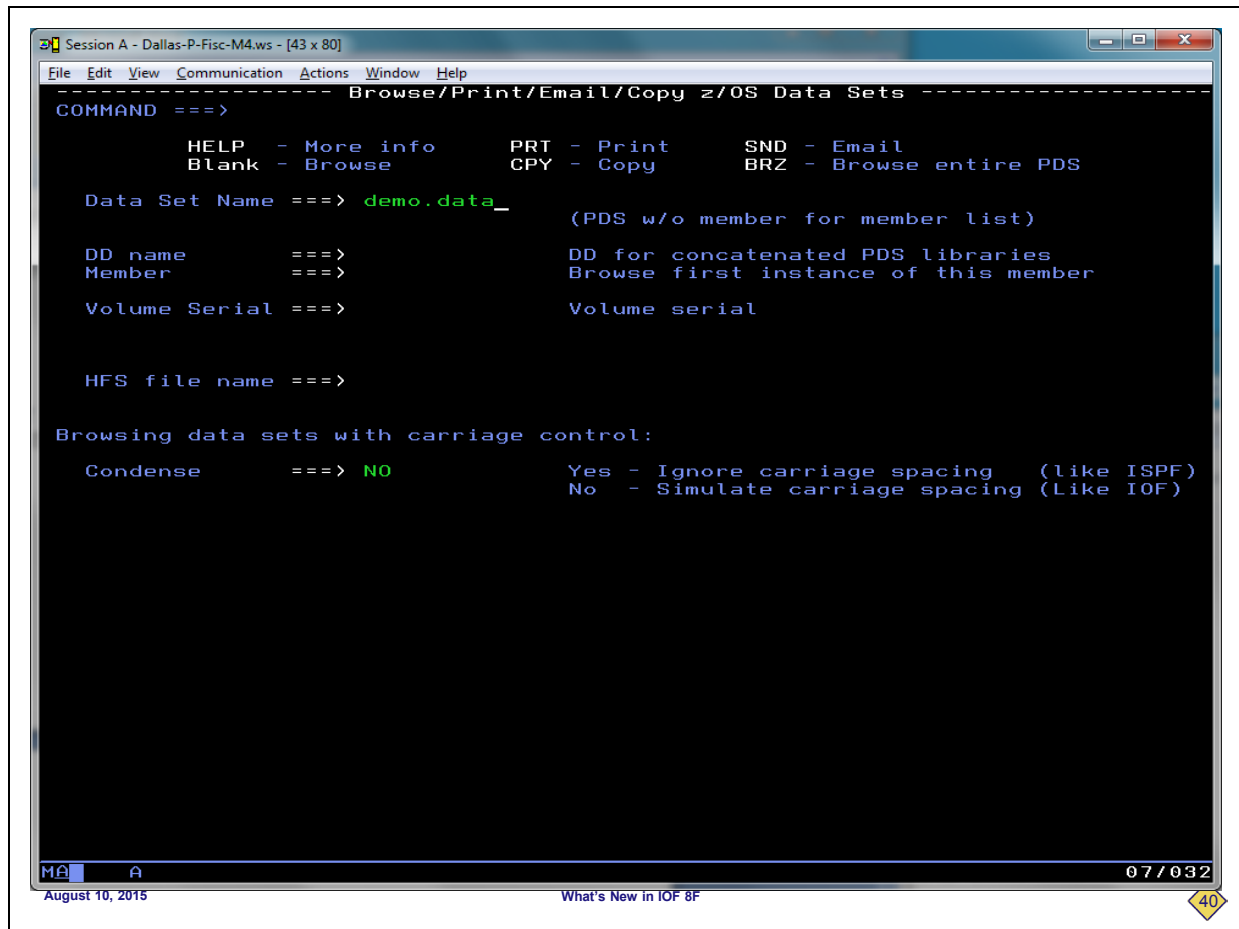


Enter ZDS on any IOF of ISPF panel to display this interface menu:

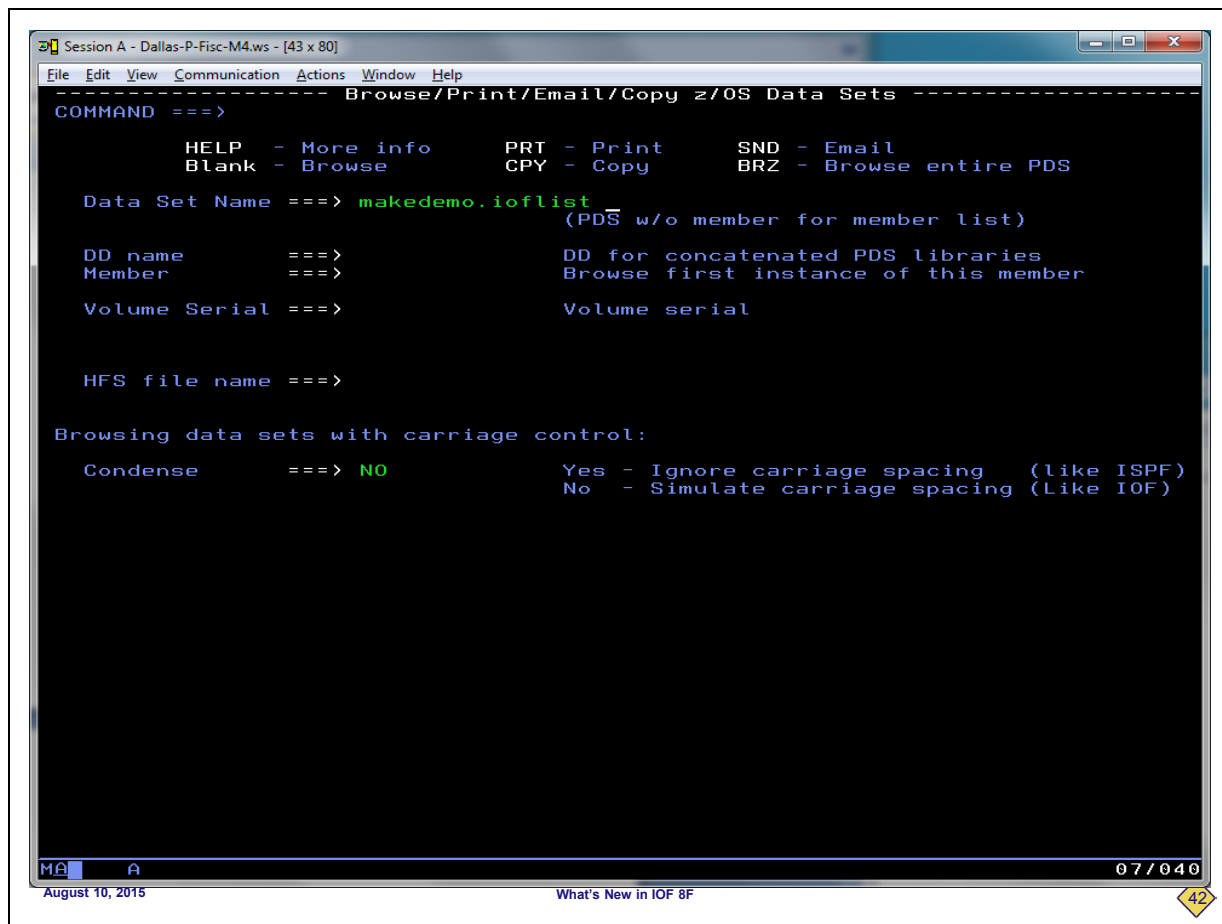


There are many functions here, but for now we will just browse a sequential data set by entering its name in the data set name field.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
DSN: IOFDEMO.DEMO.DATA                      Record 1          Columns 1-80
COMMAND ==> _                               SCROLL ==> CURSOR
***** Top of Data *****
Dummy record 1                               00000100
Dummy record 2                               00000110
Dummy record 3                               00000120
Dummy record 4                               00000130
Dummy record 5                               00000140
Dummy record 6                               00000150
Dummy record 7                               00000160
Dummy record 8                               00000170
Dummy record 9                               00000180
***** Bottom of Data *****

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```

This is IOF browsing the data set. This feature is not particularly interesting since you would probably just use ISPF to browse this type of data.
Now, we will go back and browse a different data set.



We will browse the data set **MAKEDEMO.IOFLIST** by entering its name in the data set name field.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
DSN: IOFDEMO.MAKEDEMO.IOFLIST Page 1 Line 1 Cols 1-80
COMMAND ==> SCROLL ==> CURSOR
***** Top of Data *****
High Level Assembler Option Summary

No Overriding ASMAOPT Parameters
Overriding Parameters- TERM,DECK
No Process Statements

Options for this Assembly

NOADATA
ALIGN
NOASA
BATCH
CODEPAGE(047C)
NOCOMPAT
NODBCS
3 DECK
DXREF
ESD
NOEXIT
FLAG(0,ALIGN,CONT,EXLITW,NOIMPLEN,NOPAGE0,PUSH,RECORD,NOSUBSTR,USING0)
NOFOLD
NOGOFF
NOINFO
LANGUAGE(EN)
NOLIBMAC
LINECOUNT(60)
LIST(121)
MACHINE(,NOLIST)
MXREF(SOURCE)
OBJECT
OPTABLE(UNI,NOLIST)
NOPCONTROL
NOPESTOP
NOPROFILE
NORA2
NORENT

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```

You can see that this data set has carriage control. That is even clearer if you scroll down.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
DSN: IOFDEMO.MAKEDEMO.IOFLIST Page 3 Line 1 Cols 1-80
COMMAND ==> _ SCROLL ==> CURSOR

Active Usings: None

Loc Object Code Addr1 Addr2 Stmt Source Statement
000000 00000 00489 1 VID START
2 PRINT NOGEN
3 REGISTER
000000 05C0 20 BALR R12,0
21 USING *,R12
R:C 00002
R:B 00000 22 USING WRKDSECT,R11
000002 1821 23 LR R2,R1 Save
000004 45A0 C01A 0001C 25 BAL R10,GETWRK
000008 45A0 C036 00038 27 BAL R10,INITPARM Set
00000C 45A0 C044 0000C 29 VIDLOOP EQU *
30 BAL R10,PULLFUNC
000010 00000000 31 DC AL4(*-*) +0 =
000014 45A0 C054 00056 33 BAL R10,DOFUNC
000018 47F0 C00A 0000C 35 B VIDLOOP

```

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From this display you can clearly see that IOF browse is honoring the carriage control in the z/OS data set.
Now, we will go back and demonstrate some more ZDS features.



You can also print z/OS sequential data sets using all of the IOF print characteristics. To demonstrate that we will enter the PRT command and enter MAKEDEMO.IOFLIST in the data set field.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Snap to Sysout Data Set --- (Screen 1 of 6) -----
COMMAND ==>
Printing: IOFDEMO.MAKEDEMO.IOFLIST
Blank - Open SNAP data set and return
Down - Display panel with more SNAP attributes

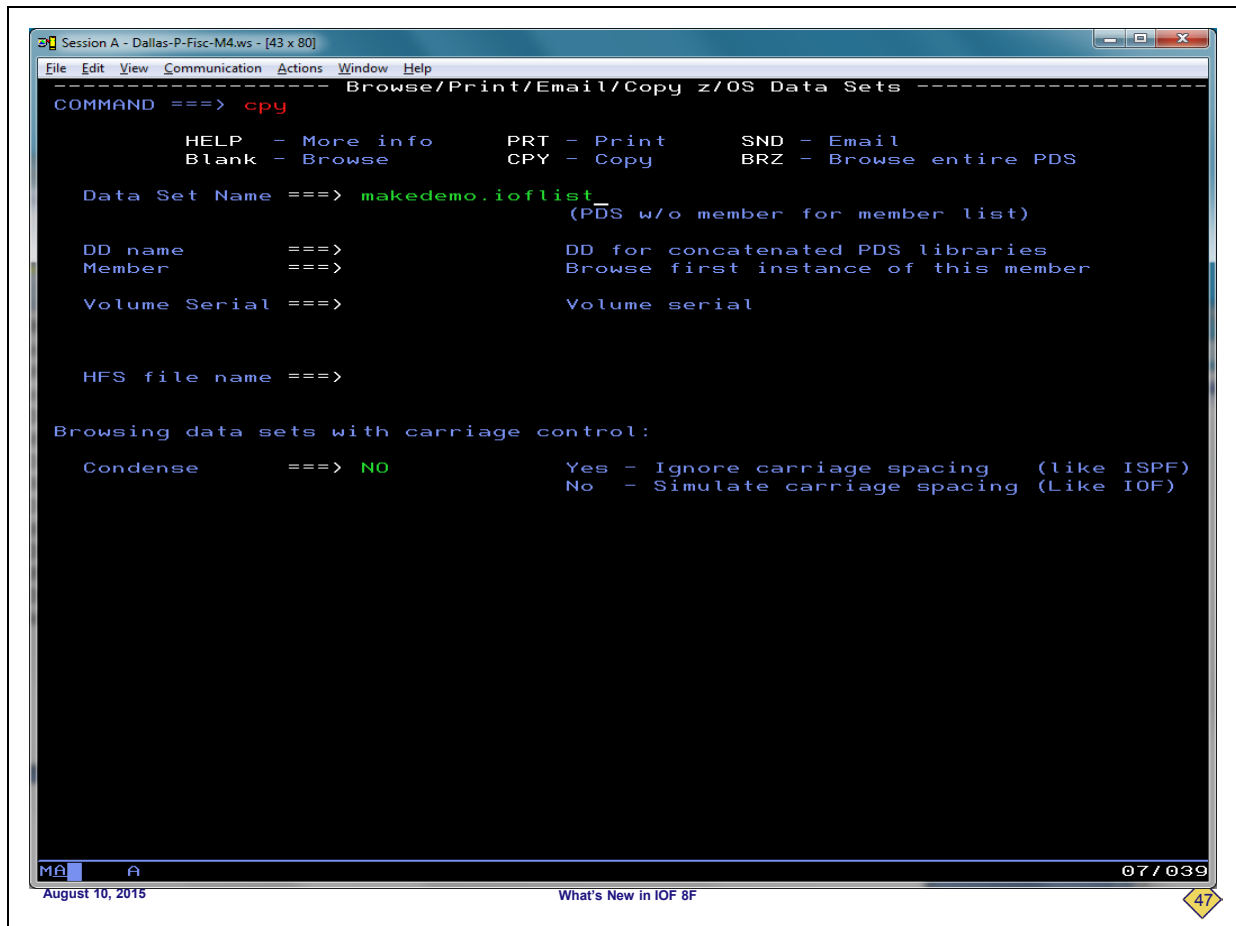
CLASS ==> Sysout class
DEST ==>

OUTDISP ==> Output disposition (WRITE/KEEP/HOLD)
CONVERT ==> Conversion format (html)
CC ==> A Carriage control (A/M/NONE/HTML/ASCII)
OPTCD ==> "J" for 3800 printers
PAGEDEF ==> FORMDEF ==> FORMS ==>

TITLE ==>
NAME ==>
ROOM ==>
BUILDING ==>
DEPT ==>
ADDRESS ==>
==>

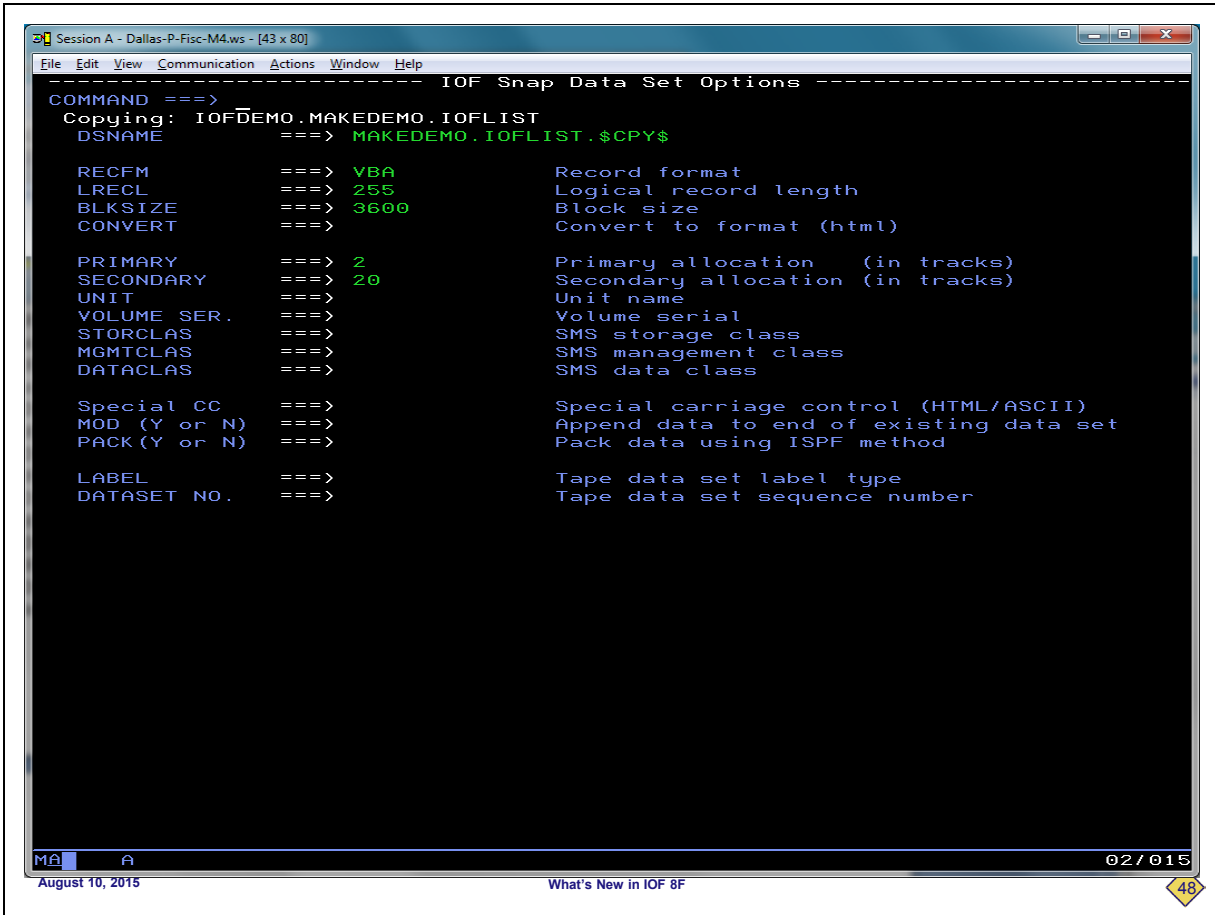
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```

This is the standard IOF SS display. Pressing ENTER on this display would print the data set using the specified sysout attributes.
But, we will just return to the ZDS display.

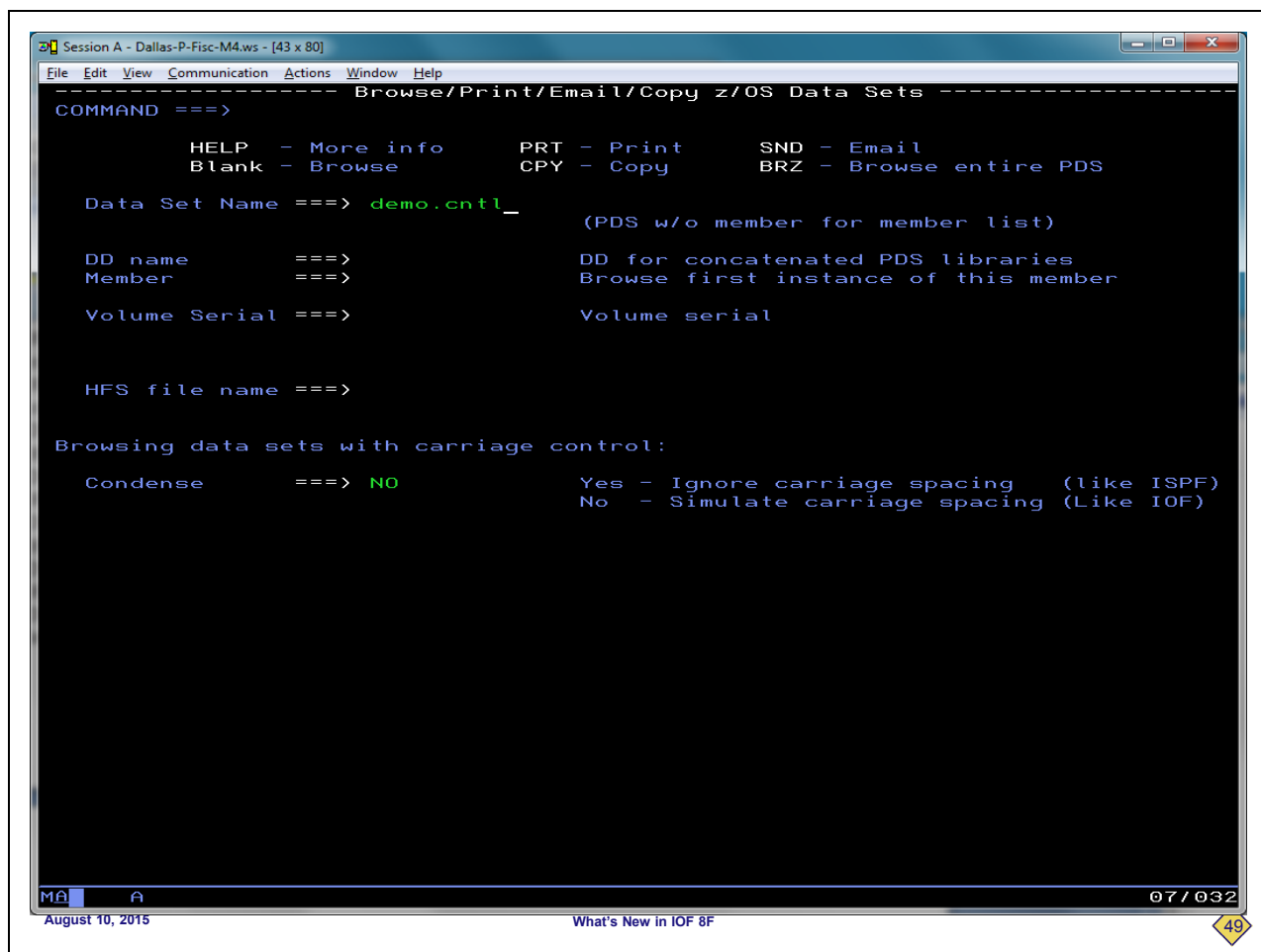


You can also copy sequential data sets with ZDS.

To demonstrate that, we will copy MAKEDEMO.IOFLIST by entering the CPY command and entering its name in the data set name field.



This is the standard IOF SD display where you specify the name and data format for a target disk data set. A suggested data set name is displayed, but you can overtype that. This is a very flexible copy facility. Not only can you reformat a data set to a new record format and/or block size, you can also convert its carriage control just by specifying a different RECFM value. And, specifying a RECFM without carriage control (FB, VB, etc.) will actually remove the carriage control from the input data set as it is copied. Pressing ENTER here would copy the data set, but we will just return to the ZDS panel.



The new ZDS command can also deal with partitioned data sets.
To demonstrate that, we will enter the PDS DEMO.CNTL in the data set name field.

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]

File Edit View Communication Actions Window Help

IOF Browse IOFDEMO.DEMO.CNTL Row 00001 of 00009

COMMAND ==> SCROLL ==> CURSOR

	Name	Prompt	Size	ID	Created	Changed	
1	IOFARCME		31	IOFDEMO	2015/07/27	2015/07/28 16:30:43	
2	MAKEDEMO		21	IOFDEMO	2014/05/05	2015/07/28 16:17:51	
3	MAYPDATA		7	IOFDEMO	2014/05/05	2015/07/05 11:10:21	
4	M11ABEND		7	IOFDEMO	2014/05/07	2015/07/05 11:11:09	
5	RESTART		7	IOFDEMO	2014/05/07	2015/07/05 11:11:16	
6	RUNNING		7	IOFDEMO	2014/05/07	2015/07/05 11:11:24	
7	SAMPLE		48	IOFDEMO	2014/05/05	2015/07/05 11:11:40	
8	TEST		4	IOFDEMO	2014/05/05	2015/07/05 11:11:46	
9	WTOS		12	TSIUID4	2014/05/06	2014/05/06 16:07:26	

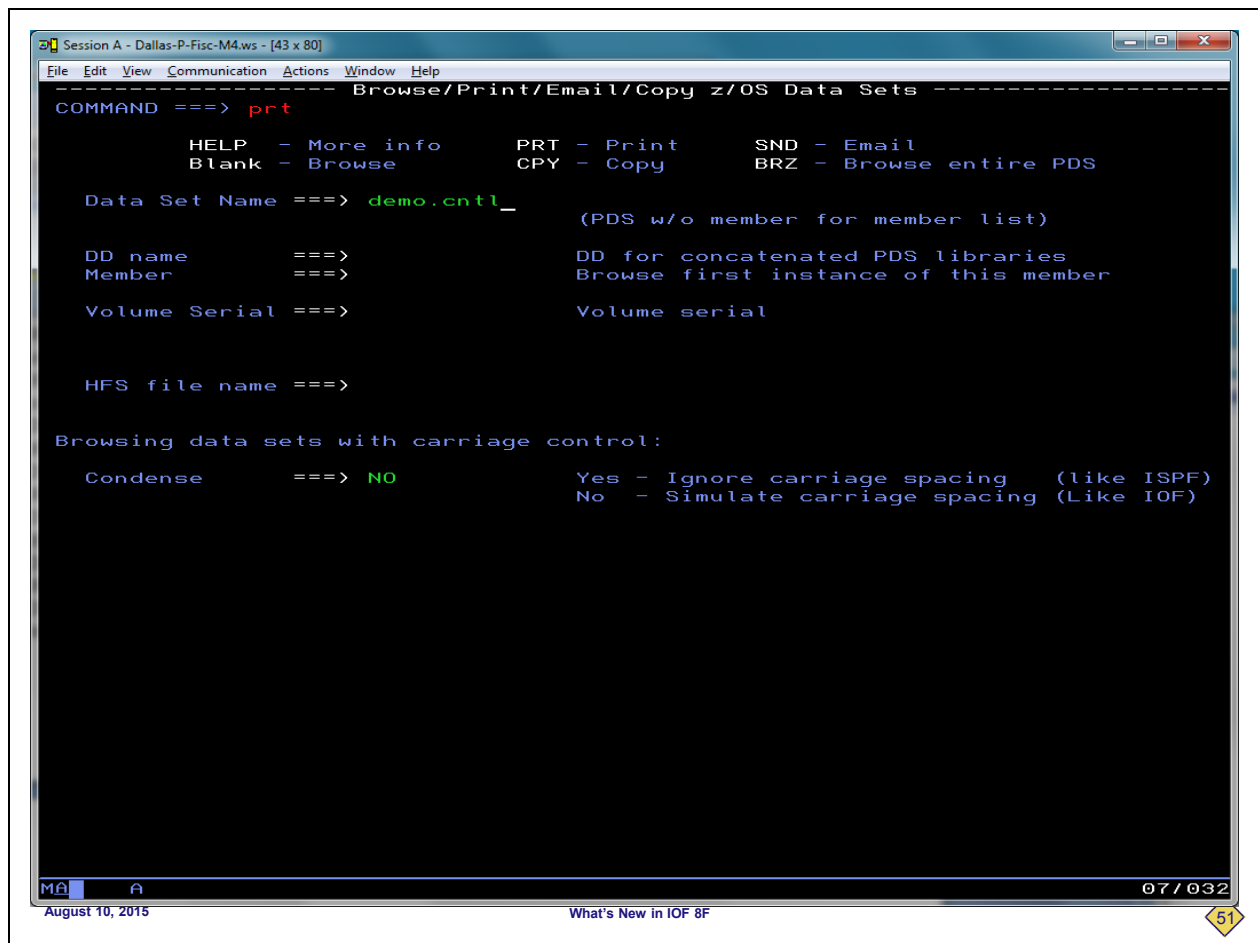
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This is a member list that is very similar to the one you might see for ISPF browse or edit. You can select members for IOF browse, but that's probably not how you will use this panel. A more practical use for this panel is to specify one or more PRT line commands to print members. All of the selected members will be printed into the same sysout data set.

We don't plan to demonstrate any of that, so we will just return to the ZDS panel.



ZDS also allows you to print an entire PDS.
To demonstrate that, we will enter the PRT command and enter DEMO.CNTL in the data set name field.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Snap to Sysout Data Set --- (Screen 1 of 6) -----
COMMAND ==>
Printing: IOFDEMO.DEMO.CNTL
Blank - Open SNAP data set and return
Down - Display panel with more SNAP attributes

CLASS ==>                               Sysout class
DEST ==>

OUTDISP ==>                             Output disposition (WRITE/KEEP/HOLD)
CONVERT ==>                             Conversion format (html)
CC ==> A                               Carriage control (A/M/NONE/HTML/ASCII)
OPTCD ==>                               "J" for 3800 printers
PAGEDEF ==>                             FORMDEF ==>                             FORMS ==>

TITLE ==>
NAME ==>
ROOM ==>
BUILDING ==>
DEPT ==>
ADDRESS ==>
==>
==>
==>

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```

Again, this is the standard IOF SS display for specifying print attributes. This time we will press ENTER to print the entire partitioned data set. Now, we will go review the printout with IOF.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
BROWSE - SYS00116 TSIPR8$ DOIT - Page 1 Line 1 Cols 1-80
COMMAND ==> SCROLL ==> CURSOR
***** Top of Data *****
*****
*****
***** I O F P D S P R I N T / C O P Y ( Z D S ) *****
*****
***** Data Set..... IOFDEMO.DEMO.CNTL *****
*****
***** Date..... 8/05/2015 *****
***** Time..... 9:45 *****
***** User..... IOFDEMO *****
*****
***** Recfm..... FB *****
***** Lrecl..... 80 *****
***** Blksize..... 6160 *****
*****
***** Units..... BLOCK *****
***** Alloc..... 16 *****
***** Used..... 9 *****
***** Extents..... 1 *****
*****
***** Members ..... 9 *****
***** Dir Blks .... 2 *****
***** Used..... 2 *****
*****
***** Unit ..... 3390 *****
***** Volume ..... TSI901 *****
*****
***** ***** *****
***** * See ZDS HELP for more header formats: *
***** * PRT/CPY/SND ... *
***** * NOHDR - No headers *
***** * HDRMIN - Minimal headers *
***** * HDRBACK - IEBUPDTE headers *
***** * *****
***** *****
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```

This is the first page that is printed by default when you use ZDS to print a PDS. It is basically a banner page that displays who printed it and when. It also includes detailed attributes of the PDS being printed. There is a small information block in the lower right section of the banner page that describes other available printout formats. We will demonstrate one of those in a later slide. Now, we will scroll to the next page.

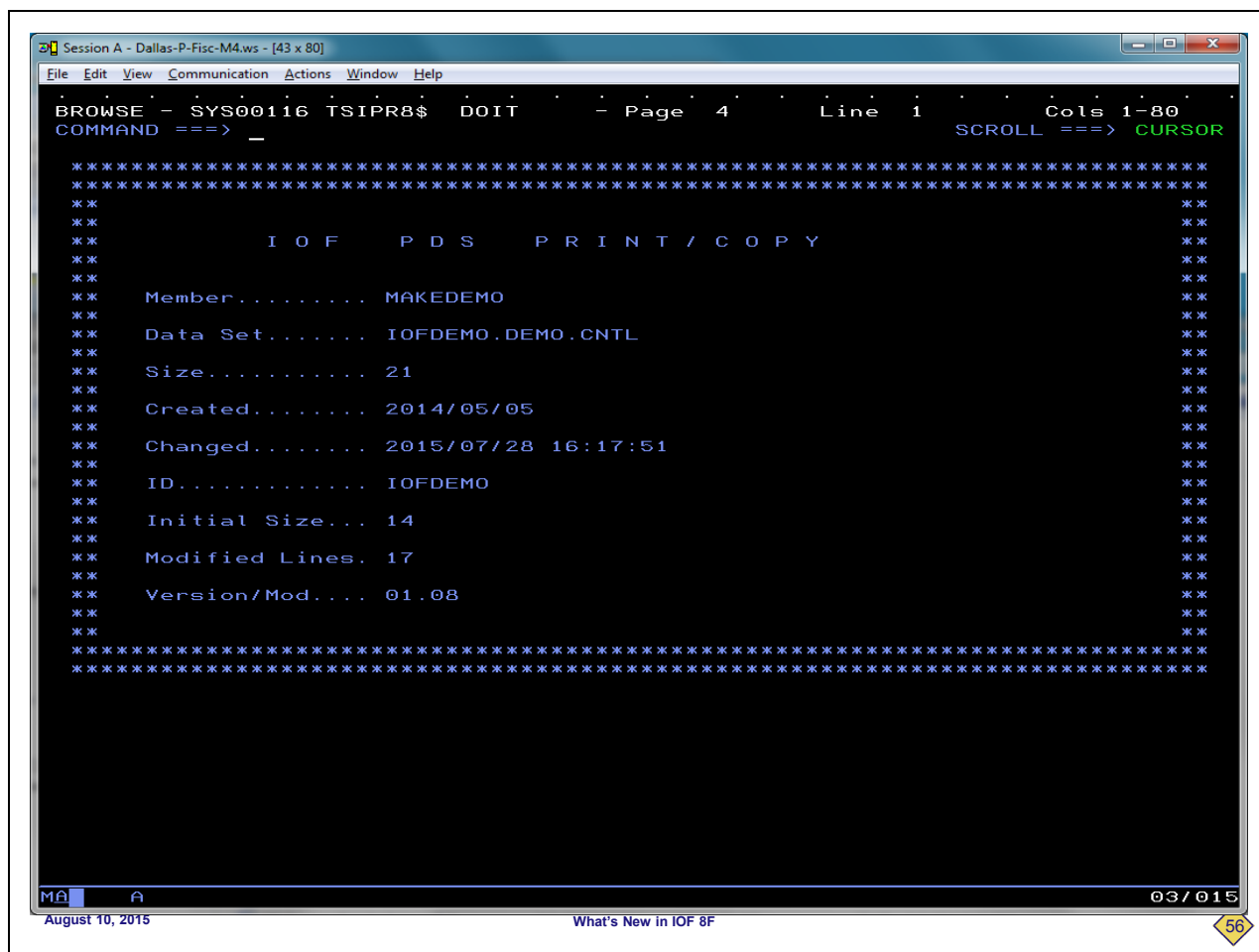


```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
BROWSE - SYS00142 TSIPR8$ DOIT - Page 3 Line 1 Cols 1-80
COMMAND ==> _ SCROLL ==> CURSOR

These are sample job steps that we inserted at the end of jobs
that assemble IOF source modules as they are checked back in to
the master library.
...
...
...
//ARCHME EXEC IOFARCME,CATEGORY=IOF8E
...
...
...
//ARCHME EXEC IOFARCME,CATEGORY=IOF8F
-----
These are sample job steps that you might insert to archive
your SMPE jobs for each release.
...
...
...
//ARCHME EXEC IOFARCME,CATEGORY=SMPE21
...
...
...
//ARCHME EXEC IOFARCME,CATEGORY=SMPE22
00010000
00020001
00021001
00022001
00030000
00031000
00032000
00033000
00040000
00050000
00061000
00062000
00063000
00070000
00071001
00072001
00080101
00081001
00082001
00084001
00085001
00086001
00087001
00088001
00089101
00089201
00089301
00089401
00089501
00089601
00090000

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```

Here is the data from the first PDS member. It is only one screen long, so scrolling down will take us to the next member.



This is the banner page for the second member. Now, we will scroll again.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
BROWSE - SYS00142 TSIPR8$ DOIT - Page 5 Line 1 Cols 1-80
COMMAND ===> SCROLL ===> CURSOR

//MAKEDEMO JOB 1,JIMOTT,MSGCLASS=H 00010008
//PROC JCLLIB ORDER=(IOFDEMO.DEMO.PROCLIB) 00020005
//COMPOBJ EXEC PGM=IEBCOPY,PARM=COMPRESS 00021000
//SYSPRINT DD SYSOUT=H 00022008
//SYSUT1 DD DSN=IOFDEMO.DEMO.OBJ,DISP=SHR 00023004
//SYSUT2 DD DSN=IOFDEMO.DEMO.OBJ,DISP=SHR 00024004
//SYSIN DD DUMMY 00025000
//COMPLOAD EXEC PGM=IEBCOPY,PARM=COMPRESS 00026000
//SYSPRINT DD SYSOUT=H 00027008
//SYSUT1 DD DSN=IOFDEMO.DEMO.LOAD,DISP=SHR 00028004
//SYSUT2 DD DSN=IOFDEMO.DEMO.LOAD,DISP=SHR 00029004
//SYSIN DD DUMMY 00029100
//ASM EXEC DEMOASM,M=DEMO 00030005
//C.SYSIN DD DSN=IOFDEMO.DEMO.ASM(DEMO),DISP=SHR 00040005
//LINK EXEC PGM=IEWL,PARM='NORENT,LIST,AMODE=31,RMODE=24,COMPAT=LKED' 00050001
//DEMOOBJ DD DSN=IOFDEMO.DEMO.OBJ,DISP=SHR 00060005
//SYSLMOD DD DISP=SHR,DSN=IOFDEMO.DEMO.LOAD 00070004
//SYSPRINT DD SYSOUT=H 00080008
//SYSLIN DD * 00090001
INCLUDE DEMO0OBJ(DEMO) 00100005
NAME TEMPNAM8(R) 00110003

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```

This is the data for the second member. I think you can see how this format works. Again, you can choose to have different banner pages or no banners at all. Now, will return to the ZDS panel.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Browse/Print/Email/Copy z/OS Data Sets -----
COMMAND ==> cpy hdrback

      HELP - More info      PRT - Print      SND - Email
      Blank - Browse       CPY - Copy       BRZ - Browse entire PDS

Data Set Name ==> demo.cntl_      (PDS w/o member for member list)

DD name      ==>
Member       ==>      DD for concatenated PDS libraries
                        Browse first instance of this member

Volume Serial ==>      Volume serial

HFS file name ==>

Browsing data sets with carriage control:

Condense      ==> NO      Yes - Ignore carriage spacing (like ISPF)
                        No - Simulate carriage spacing (Like IOF)

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```

ZDS also allows you to copy all of the members of a PDS into a sequential data set. To demonstrate that we will enter the “**CPY HDRBACK**” command and enter DEMO.CNTL in the data set name field. The HDRBACK parm indicates that we want to generate headers for each member so that the resultant sequential data set could be fed back into IEBUPDTE to recreate the PDS.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- IOF Snap Data Set Options -----
COMMAND ==>
Copying: IOFDEMO.DEMO.CNTL
DSNAME      ==> DEMO.CNTL.FLATPDS

RECFM       ==> FB           Record format
LRECL       ==> 80          Logical record length
BLKSIZE     ==> 6160        Block size
CONVERT     ==>            Convert to format (html)

PRIMARY     ==> 3           Primary allocation (in tracks)
SECONDARY   ==> 1           Secondary allocation (in tracks)
UNIT        ==>            Unit name
VOLUME SER. ==>            Volume serial
STORCLAS    ==>            SMS storage class
MGMTCLAS    ==>            SMS management class
DATACLAS    ==>            SMS data class

Special CC   ==>            Special carriage control (HTML/ASCII)
MOD (Y or N) ==>            Append data to end of existing data set
PACK (Y or N) ==>            Pack data using ISPF method

LABEL       ==>            Tape data set label type
DATASET NO. ==>            Tape data set sequence number

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```

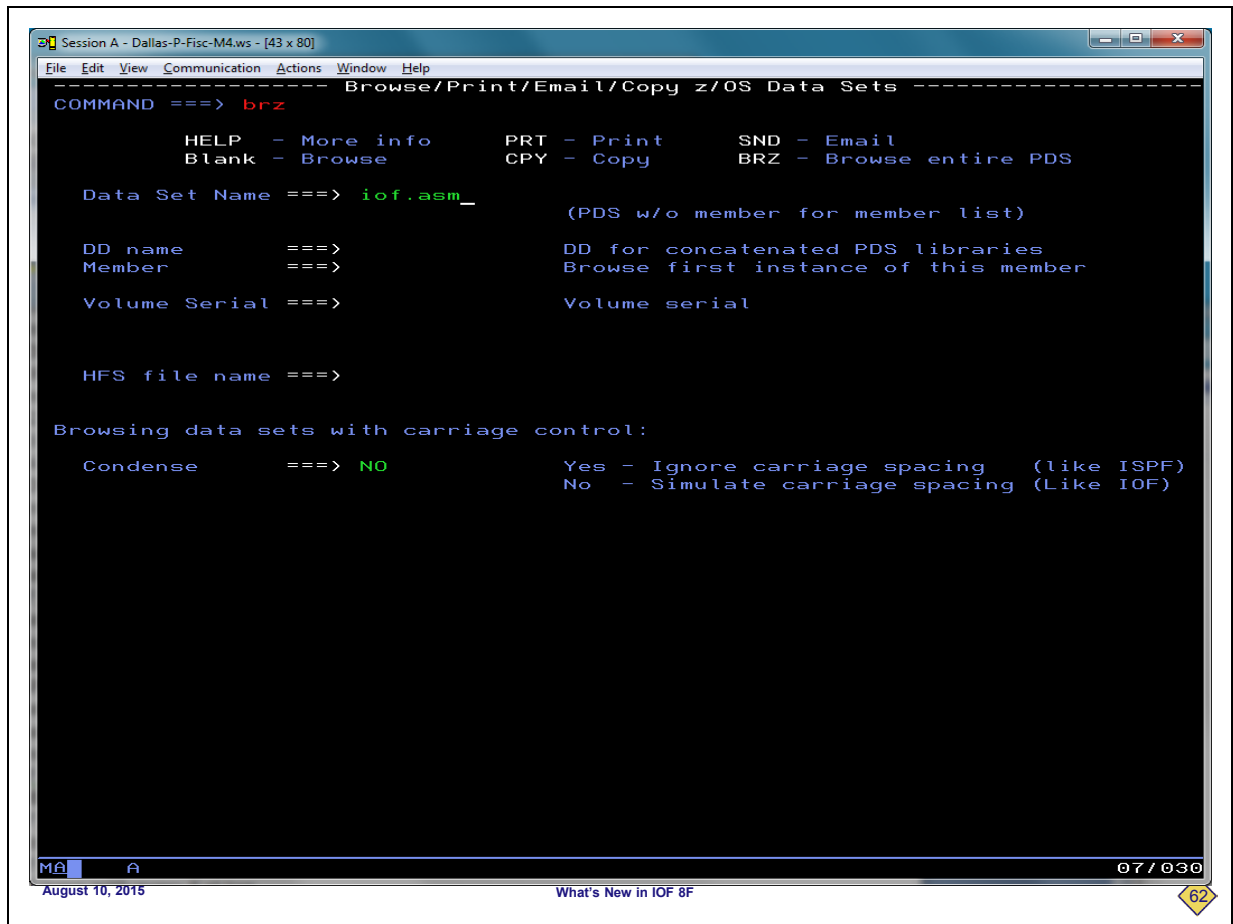
Once again this is the standard IOF SD display for writing to a sequential data set. A data set name has been suggested, but you can override that. The DCB attributes for the target data set have been defaulted to the same as the input PDS, and a reasonable estimate has been made for the space required. We will press enter to “flatten” the PDS and then swap over to browse the resulting data set.


```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
File Edit Edit Settings Menu Utilities Compilers Test Help

VIEW          IOFDEMO.DEMO.CNTL.FLATPDS          Columns 00001 00072
Command ==> Scroll ==> CSR
000044 ./ ADD NAME=MAKEDEMO
000045 ./          SIZE(21)
000046 ./          CREATED(2014/05/05)
000047 ./          CHANGED(2015/07/05 11:35:55)
000048 ./          ID(IOFDEMO)
000049 ./          INIT(14)
000050 ./          MOD(15)
000051 ./          VVMM(01.05)
000052 //MAKEDEMO JOB 1,JIMOTT
000053 //PROC JCLLIB ORDER=(IOFDEMO.DEMO.PROCLIB)
000054 //COMPOBJ EXEC PGM=IEBCOPY,PARM=COMPRESS
000055 //SYSPRINT DD SYSOUT=A
000056 //SYSUT1 DD DSN=IOFDEMO.DEMO.OBJ,DISP=SHR
000057 //SYSUT2 DD DSN=IOFDEMO.DEMO.OBJ,DISP=SHR
000058 //SYSIN DD DUMMY
000059 //COMPCLOAD EXEC PGM=IEBCOPY,PARM=COMPRESS
000060 //SYSPRINT DD SYSOUT=A
000061 //SYSUT1 DD DSN=IOFDEMO.DEMO.LOAD,DISP=SHR
000062 //SYSUT2 DD DSN=IOFDEMO.DEMO.LOAD,DISP=SHR
000063 //SYSIN DD DUMMY
000064 //ASM EXEC DEMOASM,M=DEMO
000065 //C.SYSIN DD DSN=IOFDEMO.DEMO.ASM(DEMO),DISP=SHR
000066 //LINK EXEC PGM=IEWL,PARM='NORENT,LIST,AMODE=31,RMODE=24,COMPAT=LKED'
000067 //DEMOOBJ DD DSN=IOFDEMO.DEMO.OBJ,DISP=SHR
000068 //SYSLMOD DD DISP=SHR,DSN=IOFDEMO.DEMO.LOAD
000069 //SYSPRINT DD SYSOUT=A
000070 //SYSLIN DD *
000071 INCLUDE DEMO0OBJ(DEMO)
000072 NAME TEMPNAM8(R)
000073 ./ ADD NAME=MAYPDATA
000074 ./          SIZE(7)
000075 ./          CREATED(2014/05/05)
000076 ./          CHANGED(2015/07/05 11:10:21)
000077 ./          ID(IOFDEMO)
000078 ./          INIT(5)
000079 ./          MOD(6)
000080 ./          VVMM(01.06)
000081 //MAYPDATA JOB 1,JIMOTT

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```

We can see now the “./ ADD” IEBUPDTE control statement for the first member. The ISPF stats are included, but only as IEUPDTE comments. They would not be recreated if you run this data set back in as input to IEBUPDTE. However, it is easy to see that a simple utility could be created to simulate IEBUPDTE and restore the ISPF stats. You can also see the “./ ADD” statement for the start of the second member. The remaining members are formatted in a similar fashion. Now, we will return to the ZDS panel for another example of its powerful functions.



We will briefly mention two other important ZDS functions before continuing with the sample session.

You can use the SND command to send an entire flattened PDS using the IOF mail facility.

If you enter "ISPLLIB" in the DD name field and "ISR@PRIM" in the member field you will browse your current ISPF primary option menu, which will include displaying the data set name. With ZDS it is trivial to find the first occurrence of a member in a concatenation. Now, back to the demo.

ZDS allows you to browse an entire PDS as a sequential data set. To demonstrate that, we will enter the BRZ command and enter IOF.ASM in the data set name field.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
DSN: IOFDEMO.IOF.ASM($$LEVEL) Record 1 Columns 1-80
COMMAND ==> f jump SCROLL ==> CURSOR
***** Top of Data *****
* IOF Spin Level 2013316 00010000
* IOF/TS0 Release 8E 00020000
* 00030000
* 00040003
* 00050000
COL_DEVDSP_LOCPRP_COMMAND EQU 1 00010000
COL_DEVDSP_LOCPRP_MENULEN5 EQU 2 00020000
COL_DEVDSP_LOCPRP_DEVICE EQU 3 00030000
COL_DEVDSP_LOCPRP_ACTION EQU 4 00040000
COL_DEVDSP_LOCPRP_STATUS EQU 5 00050000
COL_DEVDSP_LOCPRP_JOBNAME EQU 6 00060000
COL_DEVDSP_LOCPRP_JOBID EQU 7 00070000
COL_DEVDSP_LOCPRP_SIZE EQU 8 00080000
COL_DEVDSP_LOCPRP_LEFT EQU 9 00090000
COL_DEVDSP_LOCPRP_UNITS EQU 10 00100000
COL_DEVDSP_LOCPRP_LASTFORM EQU 11 00110000
COL_DEVDSP_LOCPRP_CLASS EQU 12 00120000
COL_DEVDSP_LOCPRP_WTRID EQU 13 00130000
COL_DEVDSP_LOCPRP_UCS EQU 14 00140000
COL_DEVDSP_LOCPRP_FCB EQU 15 00150000
COL_DEVDSP_LOCPRP_LIM EQU 16 00160000
COL_DEVDSP_LOCPRP_PLIM EQU 17 00170000
COL_DEVDSP_LOCPRP_RANGE EQU 18 00180000
COL_DEVDSP_LOCPRP_FORMS EQU 19 00190000
COL_DEVDSP_LOCPRP_CKPTLINE EQU 20 00200000
COL_DEVDSP_LOCPRP_CKPTPAGE EQU 21 00210000
COL_DEVDSP_LOCPRP_CKPTMODE EQU 22 00220000
COL_DEVDSP_LOCPRP_CKPTSEC EQU 23 00230000
COL_DEVDSP_LOCPRP_NPRO EQU 24 00240000
COL_DEVDSP_LOCPRP_BURST EQU 25 00250000
COL_DEVDSP_LOCPRP_MARK EQU 26 00260000
COL_DEVDSP_LOCPRP_FLASH EQU 27 00270000
COL_DEVDSP_LOCPRP_MODIFY EQU 28 00280000
COL_DEVDSP_LOCPRP_CHR1 EQU 29 00290000
COL_DEVDSP_LOCPRP_CHR2 EQU 30 00300000
COL_DEVDSP_LOCPRP_CHR3 EQU 31 00310000
COL_DEVDSP_LOCPRP_CHR4 EQU 32 00320000
COL_DEVDSP_LOCPRP_UNIT410 EQU 33 00330000
COL_DEVDSP_LOCPRP_UNIT EQU 34 00340000
COL_DEVDSP_LOCPRP_MODE EQU 35 00350000
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```

This is the IOF browse display of the first member in the PDS. To demonstrate that we are browsing the entire PDS, remember the member name in the title, and we will enter a FIND command.


```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
DSN: IOFDEMO.IOF.ASM(@JOJS313) Record 128 Columns 1-80
COMMAND ==> f all jump SCROLL ==> CURSOR
LH R15,JOZQOFF OFFSET TO Q HEAD 01280003
LA R15,4(R15) JUMP OVER MISSING HOLD QUEUE 01290000
SRL R15,2 NOW MULT OF 1 BASE 1 01300000
LA R0,3 SEE IF LARGER THAN 3 01310000
CR R15,R0 IS IT MORE THAN 3 01320000
BNHR R14 NO - JUST RETURN IT 01330000
LR R15,R0 YES - TRUNC TO 3 01340000
BR R14 01350000
DROP 01360000
TITLE '@JOJS313 - DEFAULT JOV VALUES' 01370000
ENTRY JOVDFLT 01380000
JOVDFLT DS 0F 01390000
DC C' ' CLASS 01400000
DC AL1(0) PRTY 01410000
DC C' ' FLAG 01420000
DC C' ' CFLAG 01430000
DC F'0' ROUTE 01440000
DC CL8' ' USERID IN ROUTE 01450000
DC CL18' ' EBCDIC ROUTE 01460000
DC CL8'STD' FORMS 01470000
DC C'*****' FCB 01480000
DC C'*****' UCS 01490000
DC CL8'*****' WRITERID 01500000
DC C'*****' FLASH 01510000
DC CL8' ' PRMODE 01520000
DC AL1(0) FLAG 2 01530000
DC AL1(0) DFLAG 01540000
DC AL1(0) FLAG 3 01550000
DC AL1(0) HOLD FLAG 01560000
DC AL1(0) HOLD REASON 01570000
DC CL5' ' HOLD= OPERAND 01580000
DC CL5' ' REL= OPERAND 01590000
DC CL5' ' NDISP= OPERAND 01600000
DC CL5' ' ODISP= OPERAND 01610000
DC AL1(0) PFLAG 01620000
DC AL2(0) HOURS= 01630000
DC AL2(0) DAYS= 01640000
DC 4F'0' ***** RESERVED ***** 01650000
SPACE 01660000
DROP 01670000
SPACE 3 01680000
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```

From the title display you will notice that we are now in a different member. We could continue to enter RFIND to scan down through the occurrences of the “JUMP” string. But there is a powerful new way to look at all of the occurrences. If you have used the IOF FIND ALL command, you are aware that it is somewhat different that the ISPF version. Now, if you are browsing a “flattened” PDS, the FIND ALL command has an entirely new display. To demonstrate that we will enter a FIND ALL command.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scanning PDS: IOFDEMO.IOF.ASM ----- SCROLL ==> CURSOR
COMMAND ==> _

S - IOF Browse      V - ISPF View      E - ISPF Edit

Find - Member name or text      Next - Next unique member

-----Member---Act-Record Text-----
1  @JOJS313      LA      R15,4(R15)      JUMP OVER MISSING HOLD...
2  CMDBASE      *-JUMP-----Prim-----
3  "            *      "JUMP" command to terminate the current panel a...
4  "            *      its own "JUMP" command.
5  "            *      to "JUMP" so they can be processed by this comm...
6  "            *      COMMAND 'JUMP',4
7  "            *      BUILD COMMAND='END',I1='JUMP #'
8  "            *-JUMP-----Prim-----
9  "            *      Alternate JUMP character defined by JUMP= parm ...
10 "            *      member B49CMPAT. Just convert it to a JUMP com...
11 "            *      COMMAND '&JUMPCHR',1
12 "            *      BUILD COMMAND='JUMP',I1='#'
13 "            *      BUILD COMMAND='JUMP I #' then pass "I...
14 "            *      BUILD COMMAND='JUMP PR #' then pass "P...
15 "            *      BUILD COMMAND='JUMP P #' then pass "P...
16 "            *      BUILD COMMAND='JUMP LINE #' then pass "L...
17 EASYDEV      ... R14,*+4+6      .. Reduce input length and jump ...
18 "            ... R14,*+4+6      Yes - Reduce length and jump ...
19 OPTIONS      GBLC &PRTOPTN,&PRTOPTC,&MVSCHR,&INPRUNX,&JUMPC...
20 "            SETOVAR JUMPCHAR,'&JUMPCHR' JUMP= FROM B49C...
21 OPTOPT      COMMAND 'JUMP',4
22 "            BUILD COMMAND='SETDVARS.SETJUMP'
23 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
24 OPTSDF      COMMAND 'JUMP',4
25 "            BUILD COMMAND='SETDVARS.SETJUMP'
26 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
27 OPTUS1      COMMAND 'JUMP',4
28 "            BUILD COMMAND='SETDVARS.SETJUMP'
29 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
30 OPTUS2      COMMAND 'JUMP',4
31 "            BUILD COMMAND='SETDVARS.SETJUMP'
32 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
33 OPTUS3      COMMAND 'JUMP',4
34 "            BUILD COMMAND='SETDVARS.SETJUMP'
35 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...

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```

This new list panel shows you all of the “hits” in the entire PDS. It displays the member name and some text from each record that contains a hit. And, you can nest to browse or edit for any hit. After completing the development of this function, it became clear that users would probably like to scan a PDS without having to browse the entire PDS. That led to the new ZF command, which is described in a separate document.



ZDS Command Summary

- ◆ **Browse z/OS data sets**
- ◆ **Print z/OS data sets**
- ◆ **Copy z/OS data sets**
- ◆ **Email z/OS data sets**
- ◆ **Supports DDNAME and member**
- ◆ **Supports HFS files**
- ◆ **Runs from TSO Ready**