Edit/copy/define VSAM files from TSO/ISPF

96/01/25 ISPF/VSAM DATASET UTILITY V2.1 14:00 OPTION ===>
E - EDIT AK - DEFINE KSDS AL - DEFINE ALIAS B - BROWSE AR - DEFINE RRDS R - RENAME EC - EDIT w/copycode AE - DEFINE ESDS C - COPY BC - BROWSE w/copycode AA - DEFINE AIX D - DELETE BF - BROWSE full screen SC - SHOW copycode
BLANK - DATASET/OBJECT INFORMATION T - TUTORIAL
Name of Dataset/Object to be Processed: Object Name ===> YOUR.DATASET.NAME Volume Serial ===> (for uncataloged nonvsam files) New Name ===>
COPY CODE DSN ===> USER.SOURCE MEMBER ===> COPY4
To Save Allocation Parameters ===> OFF (on or off) SAVE PDS NAME ===> USER.SOURCE SAVE PDS MEMBER ==>

#### **Product Overview**

**ISPF/VSAM UTILITY** provides direct editing or browsing of VSAM or NON-VSAM files as well as on-line access to IDCAMS functions normally done in batch. It was designed primarily for applications and systems programmers. ISPF/VSAM UTILITY runs in an ISPF environment on MVS. Installation is simple and takes less than 1 hour.

**ISPF/VSAM UTILITY**'s Edit functions eliminate the need to write one time file "FIX-IT" programs to change datasets. Test datasets can be created and/or changed without running batch jobs. Problems with production datasets can be quickly located and repaired.

Edit is available in two formats. The first format provides a character and hex display of the record. The second format uses COBOL copycode to provide a "COBOL" view of the data. This includes access to copycode members stored in CA-Librarian if you have their optional LAM (Library Access Method). In addition to these Browse provides an additional third format that is full screen and has the "look and feel" of ISPF Browse.

VSAM datasets may also be defined online using panels. KSDS, ESDS, RRDS and Alternate indexes may be defined. The allocation parameters can be obtained by "MODELING" after an existing dataset or simply filling out the panel. The allocation parameters can be saved in a user defined PDS for later recall.

Datasets can then be loaded using the dataset COPY function from virtually any type of dataset, or by using the EDIT function.

Existing dataset statistics and allocation parameters can be displayed in an easily readable format. VSAM and NON-VSAM datasets can be COPIED, DELETED and RENAMED.

**ISPF/VSAM UTILITY** executes as a panel driven dialog under ISPF. It can be installed to be invoked from the ISPF Primary Option Menu (sample below) or as an option from a sub-menu such as the Utilities menu.

The first screen to appear is the 96/01/25 ----- ISPF/VSAM DATASET UTILITY V2.1 ----- 14:00 **ISPF/VSAM UTILITY** OPTION ===> primary menu. - EDIT AL - DEFINE ALIAS AK - DEFINE KSDS F B- BROWSEAR- DEFINERRDSR- RENAMEEC- EDIT w/copycodeAE- DEFINEESDSC- COPYBC- BROWSE w/copycodeAA- DEFINEAIXD- DELETE BF - BROWSE full screen SC - SHOW copycode BLANK - DATASET/OBJECT INFORMATION T - TUTORIAL Name of Dataset/Object to be Processed: Object Name ===> ===> (for uncataloged nonvsam files) Volume Serial New Name ===> COPY CODE DSN ===> USER.SOURCE MEMBER ===> COPY4 To Save Allocation Parameters ===> OFF (on or off) SAVE PDS NAME ===> USER.SOURCE SAVE PDS MEMBER ==>

If E (Edit) or B (BROWSE) is selected on the primary menu, the following screen is displayed. One record per screen is shown. While in Edit mode modifications can be made in character or hexadecimal by simply overtyping and pressing ENTER. Complete scrolling functions are included. Record selection can also be done by overtyping the key with a full or partial key and pressing ENTER. A find command is provided. In edit mode, records can be deleted or added using pre-existing records. Also in edit mode a change command allows finding and replacing a specified character string anywhere within a file.

ISPF/VSAM UT COMMAND ===: WAB12039845 ECCFFFFFFFF 61212039845		_L> 0952
LRECL 2000	WAB120398457WIDGET ATTACHMENT BRACKET ECCFFFFFFFFECCCCE4CEECCCDCDE4CDCCDCE4444402700001 6121203984576947530133138455302913253000000EA90054 1	START 1
RKP KEYLN 0	i. )#. ACE DISCOUNT WIGETS 12 8240000A0954444FF724444CCC4CCECDEDE4ECCCCEE4444444 93F0001E1ED0000FFB60000135049236453069475320000000 	
	g.FRANKS HIGH QUALITY WIDGETSWIDGET SU 4440080CDCDDE4CCCC4DECDCEE4ECCCCEE444003BECCCCE4EE 0000076691522089780841393806947532000003D694753024 15	
	PERMARKETBOBS WIDGETS DCDDCDDCE444444444440020CDCE4ECCCCEE444444444444444444444444444	END 200
U(UP) D(DOWN	I) R(RIGHT) L(LEFT) T(TOP) B(BOTTOM) A(ADD) DEL(DELETE)	F(FIND)

#### **EDIT and Browse VSAM and NON-VSAM Datasets**

#### **EDIT and Browse with Copycode**

EC (Edit with Copycode) or BC (Browse with Copycode) provides a panel similar to the following. The TYP field contains a code describing the USAGE of the field (ie; TYP 3 corresponds to a USAGE of COMP-3).

If you use copycode with multiple 01 levels, ISPF/VSAM Utility can present you with the 01 level matching the record you are currently in Browse or Edit on.

ISPF/VSAM UTIL - EDIT COMMAND ===> WAB120398457 ECCFFFFFFFF 612120398457	KSDS	DS:	T15		.KSDS CNT> 0001 SCROLL> 0001
LEVEL/NAME 01 INVENTORY-RECORD		LENG	ТΗ	TYP	DATA
05 INVENTORY-KEY			12	Х	WAB120398457
05 INVENTORY-NAME			30	Х	WIDGET ATTACHMENT BRACKET
05 INVENTORY-WAREHOUSE-DATA					
07 INVENTORY-COUNT			7	9	3045897
07 INVENTORY-BACK-ORDER			4	9	1300
07 INVENTORY-ADD-DATE					5 3 89234
07 INVENTORY-BIN-NUMBER			10	9	7214308957
05 INVENTORY-FINANCIAL-DATA					
07 INVENTORY-COST			7	9	79525.76
07 INVENTORY-CURRENT-DISCOUNT				2	7 9 -340.10
					/ 9 -340.10
05 INVENTORY-DISTRIBUTOR-DATA					
SUBSCRIPT 1					
POSITION: 1					
U(UP) D(DOWN) R(RIGHT) L(LEFT)	T(TOP	') B(	BOT	TOM)	A(ADD) DEL(DELETE) F(FIND)

In this format, each field defined by the COBOL Copycode is presented with the picture clauses applied to the data. Invalid data (ie; nonnumeric data in a numeric field) would be flagged. To change a field, simply overtype it and press ENTER. **ISPF/VSAM UTILLITY** will ensure correct data representation.

When editing or browsing with copycode a FC (Find Copycode) command can be used to perform a find on a dataname in the copycode. The record is redisplayed based on the dataname. F(Find) is used to find actual data values.

With both formats (hexadecimal or Copycode) you can find records directly by entering the desired key value in the key field. ALL commands can be set up as PF keys without changing PF key functions outside of **ISPF/VSAM UTILITY**. With **ISPF/VSAM UTILITY** there is no record length restriction.

#### **Full Screen Browse**

Also available is the full screen browse of a VSAM or NON-VSAM file. It has the look and feel of ISPF's full screen browse for sequential datasets.

BROWSE - YOUR.DATASET.NAME COMMAND ===> KSDS KEYPOS:2 KEYLEN: 10		COLS 001 080 SCROLL ==> PAGE
.00534432Widget attachment bracket .005345075Yellow dog politicians muzzle .006234490Sheet metal screws .006543409Extension cord - 20FT .006543413Extension cord - 30FT .006543415Extension cord - 35FT .008497666Antifreeze Tester .009543419Link chain - 10FT .009543421Link chain - 100FT .009543423Link chain - 500FT .009543425Steel dolly - 23IN. .010554425Steel dolly - 23IN. .010554435Plastic dolly - 23IN. .010554443Plastic dolly - 23IN. .010554445Stainless steel dolly - 20IN. .010554447Stainless steel dolly - 25IN.	74TRUCK 44COMMON 22FOB 22FOB 19.TRUCK 22.FOB 22.FOB 22.FOB 22.FOB 62.FOB 62.FOB 62.FOB 62.FOB 62.FOB 62.FOB	

This Browse format provides you with a means of seeing multiple records per screen. You can also view the records in hex mode. All of the normal ISPF browse commands are available. For instance, all variations of the FIND command can be used - find in a location, find a hex value, etc.

#### Swapping To/From Full Screen Browse

If you find a record you want to modify, simply pressing a PFkey will take you into EDIT on the file positioned at the record you were browsing. While in an Edit session you can swap to full screen browse with the same PFkey.

#### **Allocate VSAM Datasets**

A sample AK (Allocate/Define KSDS) screen is shown below. The AR (Allocate/Define RRDS), AE (Allocate/Define ESDS) and AA, (Allocate/Define/Build alternate index) screens are similar. By using the Model field, the parameters of an existing dataset can be used when creating a new one. The values associated with the Model dataset will automatically be filled in. Modeled values can be overtyped to modify. Parameters can be saved in a PDS for future allocations using "Save Allocation Parameters" on main menu). Previously saved allocation parameters can be recalled by entering the member name in "SAVE PDS MEMBER".

ITY ALLOCATE KSDS
data index
(parm save member name)
Index Volser ==> SYS1PK Max Rec Size ==> 250
<,CYL or REC) Secondary Alloc ==> 1

96/01/25 COMMAND ===>	- ISPF/VSAM UTILITY ALLOCATE ADDITIONAL PARAMETERS
Bufferspace Destagewait Erase Exceptionexit Ordered Reuse Spanned Stage To(date) For(days) Writecheck Owner	SPACEOUTTHEPARAMETERSYOUWANTTODEFAULT==>50000-16776704===>YESforDestaging===>YESforErase uponDelete===>YESYESforOrderedVolumes===>YESYESforReusabledataset===>BINDSTAGE, BIND orCYLF===>0-9999===>YESforwritecheck===>YESforwritecheck===>0-9999state

A second dataset allocation screen (optional) can also be used to complete the allocation.

#### **Dataset information**

If OPTION on the primary menu is left blank and Object Name filled in, then panels similar to the following DATASET INFORMATION panels will be displayed:

96/01/25 COMMAND ===> CLUSTER: ZAPB.TMSTMC DATA: ZAPB.TMSTMC.DAT, INDEX: ZAPB.TMSTMC.INDI CATALOG: CATALOG.ICFUCAT	A EX VMVSCAT		CREATION: EXPIRATION LAST UPDATE ORGANIZATIO	93.145 : 0.000 E: 93.350 DN: KSDS
OWNER: VOLUME SER/TYPE: ALLOC PRIM/2nd: TF REC LEN AVG/MAX: KEYLEN/REL KEY POS/AIX CI SIZE: FREESPACE CI/CA: SPLITS CI/CA EXTENTS:	۲ PRB007 ۲K 198 250 RKP 51	TMSTMCDD / 3350 / 72 / 250 / 0 / 512 / 6% / 6	PRE TRK N/A	RORTMC 3007 / 3350 3 / 1
RECS TOTAL: 4176 RECS UPDATED: 65298	RECS ADDED:	5301	RECS RETRIEVE:	2472963
SHARE OPTION: 2,3 SPEED: YES ERASE NO	REUSE:	NO		NO

96/01/25 COMMAND ===>		DATASET INFORMATION page 2 of 3
Bufferspace	===>	10240
Destagewait	===>	YES
Exceptionexit	===>	EXPTEX
Ordered	===>	YES
Stage	===>	BIND
Writecheck	===>	YES

A third screen containing any objects that may be related to the original selected object, such as alternate indexes, is displayed when necessary.

```
96/01/25 ----- DATASET INFORMATION ----- Row 1 to 2 of 2

COMMAND ===> CREATION: 93.145

OBJECTS RELATED TO KSDS CLUSTER: ZAPB.TMSTMC

OBJECT TYPE OBJECT NAME

ALT INDEX ZAPB.TMSTMC.VOLALT

PATH ZAPB.TMSTMC.PATH
```

#### **Copy and Delete Datasets**

The COPY (C) function allows for various VSAM and NON-VSAM capabilities. Besides allowing standard copying (VSAM to VSAM and NON-VSAM to NON-VSAM), it allows for copying VSAM to NON-VSAM and NON-VSAM to VSAM. Another convenient feature is the ability to copy PDS members to VSAM files. This would allow building test data in a PDS member and using this data to create a test VSAM file. Following is a sample copy screen. You can use the Number of Records to Copy, Number of Records to Skip, Replace like key Records, From and To Key options to selectively build test datasets from current production datasets.

```
96/01/25 -----ISPF/VSAM-UTIL DATASET COPY -----
COMMAND ===>
  FROM Dataset name ===>
                          'YOUR.KSDS.DATASET'
                         'YOUR.OTHER.KSDS.DATASET'
  TΟ
      Dataset name ===>
      Volume ser ===>
                                      (nonvsam only)
  For any Dataset:
   Number of Records to Copy ===>
   Number of Records to Skip
                            ===>
   Replace like key Records? ===> NO
  For KSDS copies only:
   From Key
             ===>
   To Key
              ===>
                                                           Press End to Exit
Press Enter to Copy
```

Renaming can also be done for both VSAM and NON-VSAM files. Renames are done directly on the primary menu.

The DELETE (D) function can be used for VSAM and NON-VSAM files as well as PDS members. Following is a sample DELETE screen:

```
96/01/25 ----- DELETE DATASET / OBJECT ----- ROW 1 TO 3 OF 3
COMMAND ===>
   PRESS END TO CANCEL OR ENTER TO CONFIRM DELETE
ABOUT TO DELETE: ZAPB.TMSTMC
   ORGANIZATION: KSDS
    VOLUME SER: DATA- ESAWRK
                                          INDEX- ESAWRK
       CATALOG: YOUR.USER.CATALOG
  CREATION DATE: 94.018
    EXPIRATION: 00.000
OBJECT TYPE
                   OBJECT NAME
  ---- ----
         ZAPB.TMSTMC.DATA
  DATA
  INDEX
              ZAPB.TMSTMC.INDEX
  ALTINDEX
                   ZAPB.TMSTMC.VOLALT
```

Installation takes less than an hour.

For a FREE 30 DAY TRIAL, send in the lease agreement or give us a call. (417) 882-8012