

File-AID for MVS (Online)

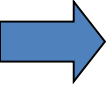
cps4it

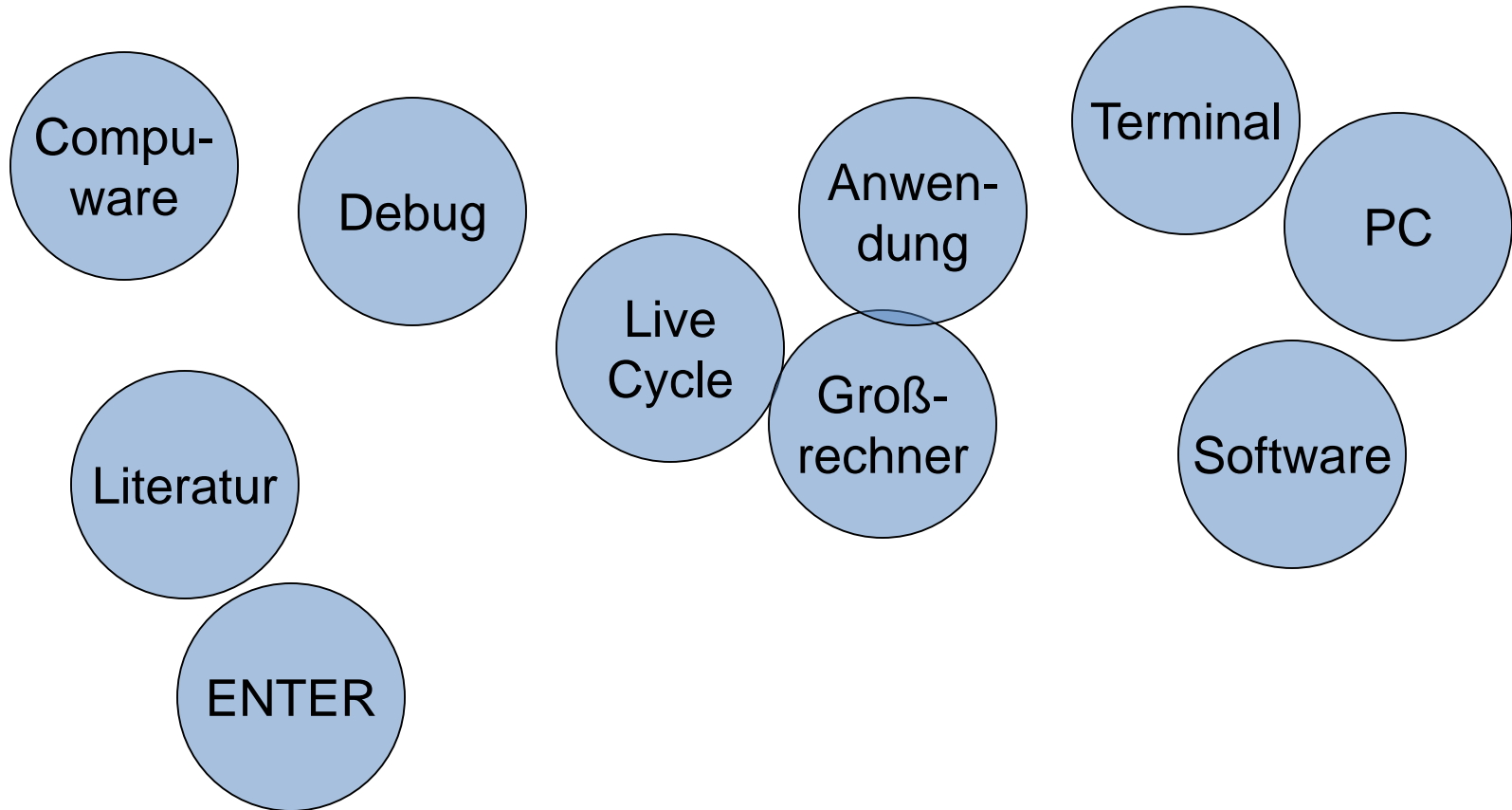
consulting, projektmanagement und seminare für die informationstechnologie

Ralf Seidler, Stromberger Straße 36A, 55411 Bingen

Fon: +49-6721-992611, Fax: +49-6721-992613, Mail: ralf.seidler@cps4it.de


Internet: <http://www.cps4it.de>

- 
- A blue arrow pointing to the right, highlighting the first item in the list.
- Einführung
 - Einstieg und Überblick
 - Optionen
 - Browse und Edit
 - Utilities
 - Print
 - Selektionskriterien
 - XREF-Datei
 - View Record Layout / Reformat
 - Compare



Produkte von Compuware

- File-AID for DB2 / File-AID for IMS / File-AID MVS (Batch und Online)
- Xpediter CICS / Xpediter TSO/IMS
- Abend Aid / CICS Abend Aid
- Strobe / iStrobe
- Licence Management System
- QA Center
- Vantage
- etc.

- File-AID for MVS Reference Summary
-  File-AID for MVS Online Reference Manual
- File-AID for MVS User's Guide
- File-AID for MVS Batch Reference Manual
- Bookmanager im Hause / zWiki
- <http://frontline.compuware.com>
 - > File-AID-MVS > Documentation
 - > File-AID-MVS > Technical Reference > Tipps and Tricks
 - > Events > Library Archives > File-AID-MVS
- <http://groups.compuware.com>



- Seit vielen Jahren auf dem Markt
- eine *der* Standard-Software von Compuware
- Zielumgebung Großrechner
- Zielgruppe Anwendungsentwicklung
- Neuerungen: wenig und Kunden getrieben
- Zusammenspiel Online und Batch
- „Teil“ des Produkts FileAid MVS

wesentliche Neuerungen (1)

- Rel 8.0 – GA 1998 Juli
 - bessere Tapeunterstützung, extended VSAM, Y2K, online Copy
- Rel 8.5 – GA 1999 Februar
 - compare, große Files, multi-volume, XREF-Erweiterung,
- Rel 8.6 – GA 1999 August
 - nix großartiges
- Rel 8.7 – GA 2000 Juli
 - compare auch mit Toleranzen, Batchparameter

wesentliche Neuerungen (2)

- Rel 8.8 – GA 2001 Februar
 - compare Loads, HFS-Files, XML-Generierung, vieles im Online
- Rel 8.9 – GA 2006 März
 - viele Zwischenreleases, riesengroße Files, bessere Onlineunterstützung
- Rel 9.0 – GA 2007 August
 - ODO-Felder (COB), REFER-Felder(PL1), VPRINT, Tapeunterstützung
- Rel 9.1 – GA 2008 Februar
 - Unicode, neue Commands im Online

wesentliche Neuerungen (3)

- Rel 9.2 – GA 2009 September
 - Feld-Feld-Vergleich, User-Variablen, z/OS 1.10 (EAV), segmentierte Records besser unterstützt
- Rel 9.3 – GA 2010 November
 - edit große comprimierte Files, Befehl RBA, Audit Trail Batch erweitert, Compare bis 99.999 Bytes
- Rel 9.3.1 – GA 11.11.11
 - CWB

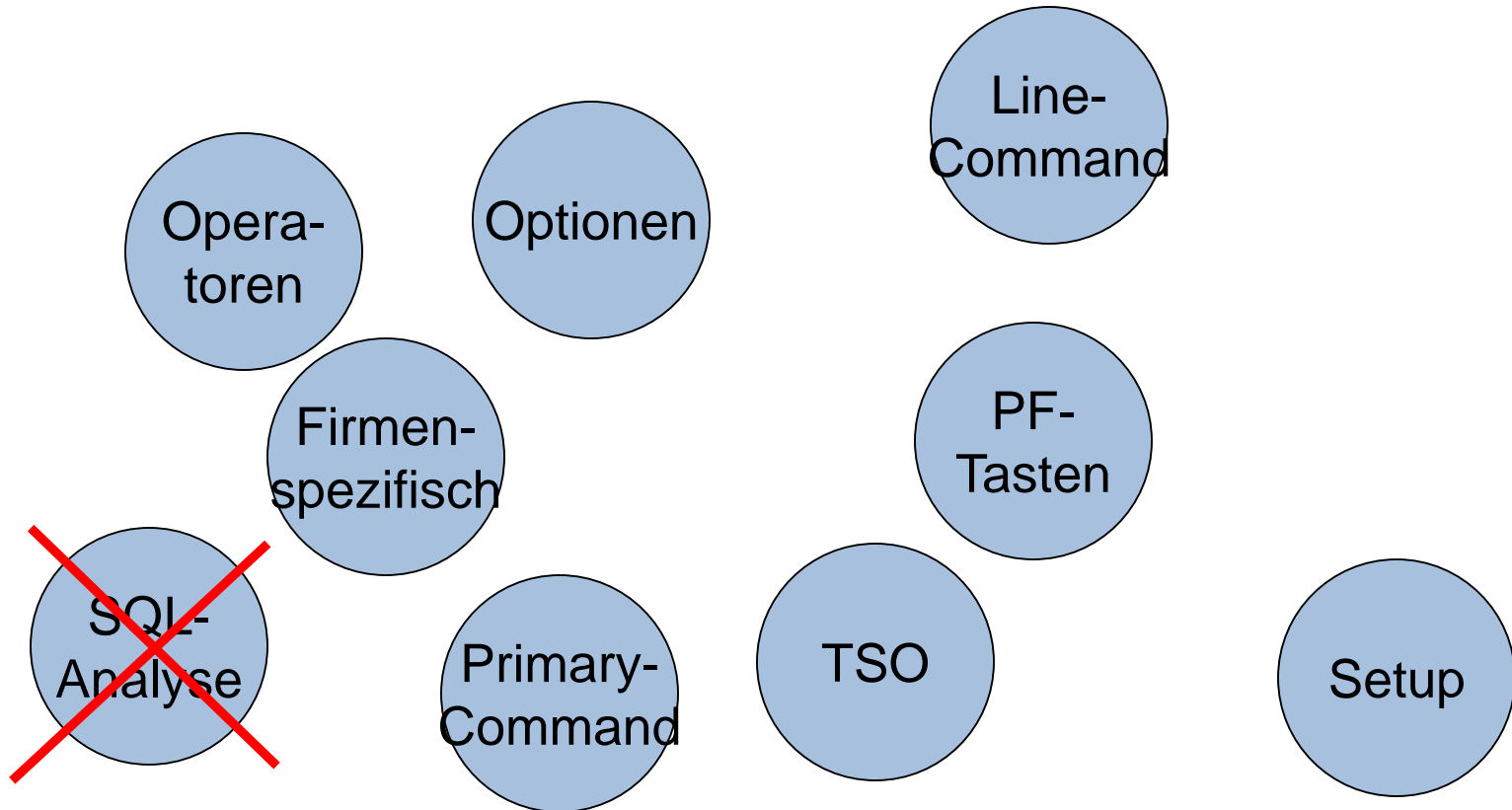


Ziele des Produkts (1)

- Hilfe für Anwendungsentwicklung
- Dateien auf Basis bestehender definieren
- Dateien / Testdateien definieren
- Testtabellen erzeugen
- Daten modifizieren
- Daten vergleichen
- Daten selektieren
- Testzeiten reduzieren

-
- Einführung
 - Einstieg und Überblick
 - Optionen
 - Browse und Edit
 - Utilities
 - Print
 - Selektionskriterien
 - XREF-Datei
 - View Record Layout / Reformat
 - Compare

Begriffe



Optionen

```
File-AID 9.3.1 ----- Primary Option Menu -----
```

```
OPTION ==>
```

0	PARAMETERS	- Specify ISPF and File-AID parameters	USERID	- XV8822D
1	BROWSE	- Display file contents	PF KEYS	- 24
2	EDIT	- Create or change file contents	TERMINAL	- 3278
3	UTILITIES	- File-AID/SPF extended utilities	TIME	- 22:18
5	PRINT	- Print file contents	JULIAN	- 12.144
6	SELECTION	- Create or change selection criteria	DATE	- 12/05/23
7	XREF	- Create or change layout cross reference	CCSID	- 01141
8	VIEW	- View interpreted record layout		
9	REFORMAT	- Convert file from one format to another		
10	COMPARE	- Compare file contents		
C	CHANGES	- Display summary of File-AID changes		
T	TUTORIAL	- Display information about File-AID		
X	EXIT	- Terminate File-AID and return to ISPF		

Use END to terminate File-AID

Online Technical Support available at: frontline.compuware.com

Copyright (c) 1982 - 2011, by Compuware Corporation. All rights reserved.
Unpublished rights reserved under the Copyright Laws of the United States.
Type LEGAL on the command line for Copyright/Trade Secret Notice.

Einstieg und Überblick

Aufruf von File-AID for MVS

- firmenspezifisch



Option 0 – Parameters (1)

- ISPF-Parameter / PF-Tasten
- Parameter für Browse, Edit, Workfiles
- Defaultparameter für Selektionen
- Druck
- Defaultwerte für Search/Update-Facility
- Audittrail
- HFS

Option 1 – Browse

- Anzeige Inhalte von Dateien
- formatierte Anzeige
- vertikale Formatierung
- unformatierte Anzeige
- Satzlänge bis 32.767 Byte
- VSAM, ISAM, QSAM, BDAM, IAM
- variable Länge, segmentierte Sätze
- HFS-Dateien



- Ändern Inhalte von Dateien
- formatierte Anzeige
- vertikale Formatierung
- unformatierte Anzeige
- Satzlänge bis 32.767 Byte
- VSAM, ISAM, QSAM, BDAM, IAM
- variable Länge, segmentierte Sätze
- HFS-Dateien



Option 3 – Utilities – 1

- PDS-Dateien verwalten mit spezieller Unterstützung von Ladebibliotheken
- Anzeige DSN-Informationen (xSAM)
- kopieren
- generische Anzeige
- VSAM-Unterstützung
- Search / Update

- Platteninformationen (VTOC)
- Aufruf Batch-Facility
- Batch-Unterstützung
- XML-Generierung



- ISPF-like wie
 - Action Bar
 - Pull Down Menüs
 - Scroll Feld (CSR, PAGE, HALF, MAX, nnn)
- Wildcards
 - ? (1 Character)
 - % (1 Character)
 - * (1 Qualifier / n Character)
 - + (n Qualifier)

File-Aid-eigene Dateien

- data file Daten
- record layout Copystruktur / Format
- XREF mehrere Formate
- selection criteria für Selektionen
- reformat definition für Neuformatierung

- Arten der Dateiverarbeitung
 - anzeigen (browse)
 - ändern (edit)
 - benutzen (allocate)
 - reformatieren (reformat from/into)
 - kopieren (copy from/into)
 - vergleichen (compare)
 - drucken (print)

- Arten der Dateien
 - feste Länge (F)
 - feste Länge geblockt (FB)
 - variable Länge (V)
 - variable Länge geblockt (VB)
 - undefiniert (U)
 - überlange Sätze (spanned) ()

Einstieg und Überblick

data file Dataset – Arten der Dateien

RECFM / DSORG	Fixed (F)	Fixed Block (FB)	Variabel (V)	Variabel Block (VB)	Undefined (U)	Spanned (BLANK)
PS – sequentiell	X	X	X	X	X	X
PO – partitioniert	X	X	X	X	X	
IS – index sequentiell	X	X	X	X	-	-
AM – VSAM KSDS	X	X	X	X	-	X
AM – VSAM ESDS	X	X	X	-	-	X
AM – VSAM RRDS	X	-	X	-	-	-
DA (BDAM)	X	X				
IAM	X	X	X	-	-	X
HFS	X	X	X	X	-	-

Tutorial – 1

```
File-AID ----- TABLE OF CONTENTS ----- TUTORIAL
OPTION ==> 0
```

```
-----
! File-AID TUTORIAL TABLE OF CONTENTS !
-----
```

You may select from the following tutorial topics or press Enter to view the first two topics in order. The remaining topics are presented only if explicitly selected:

- 0 - General information about File-AID
- 1 - File-AID Primary Option Menu

- 2 - Change history for File-AID (what's new)
- 3 - Help for using this tutorial
- 4 - Message tutorial (system error codes)
- 5 - Summary of File-AID commands
- I - Index of File-AID tutorial topics

Copyright (c) 1982 - 2006, by Compuware Corporation. All rights reserved.
Unpublished rights reserved under the Copyright Laws of the United States.

Tutorial – 2

```
File-AID ----- GENERAL INFORMATION ----- TUTORIAL
OPTION ==>
```

```
-----
!   GENERAL INFORMATION   !
-----
```

Designed for applications and systems programmers, File-AID is an interactive, full-screen system for editing, browsing, defining, copying, reformatting, scanning, comparing, and printing VSAM, IAM(tm), PDS, PDSE, BDAM, and sequential files under TSO/ISPF.

The following topics are presented in sequence, or may be selected by number:

- | | |
|--------------------------------|-------------------------------------|
| 1 - Key features of File-AID | 10 - Split screen mode |
| 2 - Invoking File-AID | 11 - Terminating File-AID |
| 3 - Summary of options 0-C | 12 - File-AID datasets |
| 4 - Screen formats | 13 - Abnormal termination |
| 5 - Command entry | 14 - Dataset security with File-AID |
| 6 - Command summary | 15 - Audit trail feature |
| 7 - Program access (PA) keys | 16 - Compression/encryption exit |
| 8 - Program function (PF) keys | 17 - Double-byte character support |
| 9 - Scrolling | |

Testdaten

- Aufruf TSO FACOPY
- Es werden die benötigten Dateien unter der eigenen User-ID erzeugt.



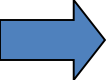
Commands

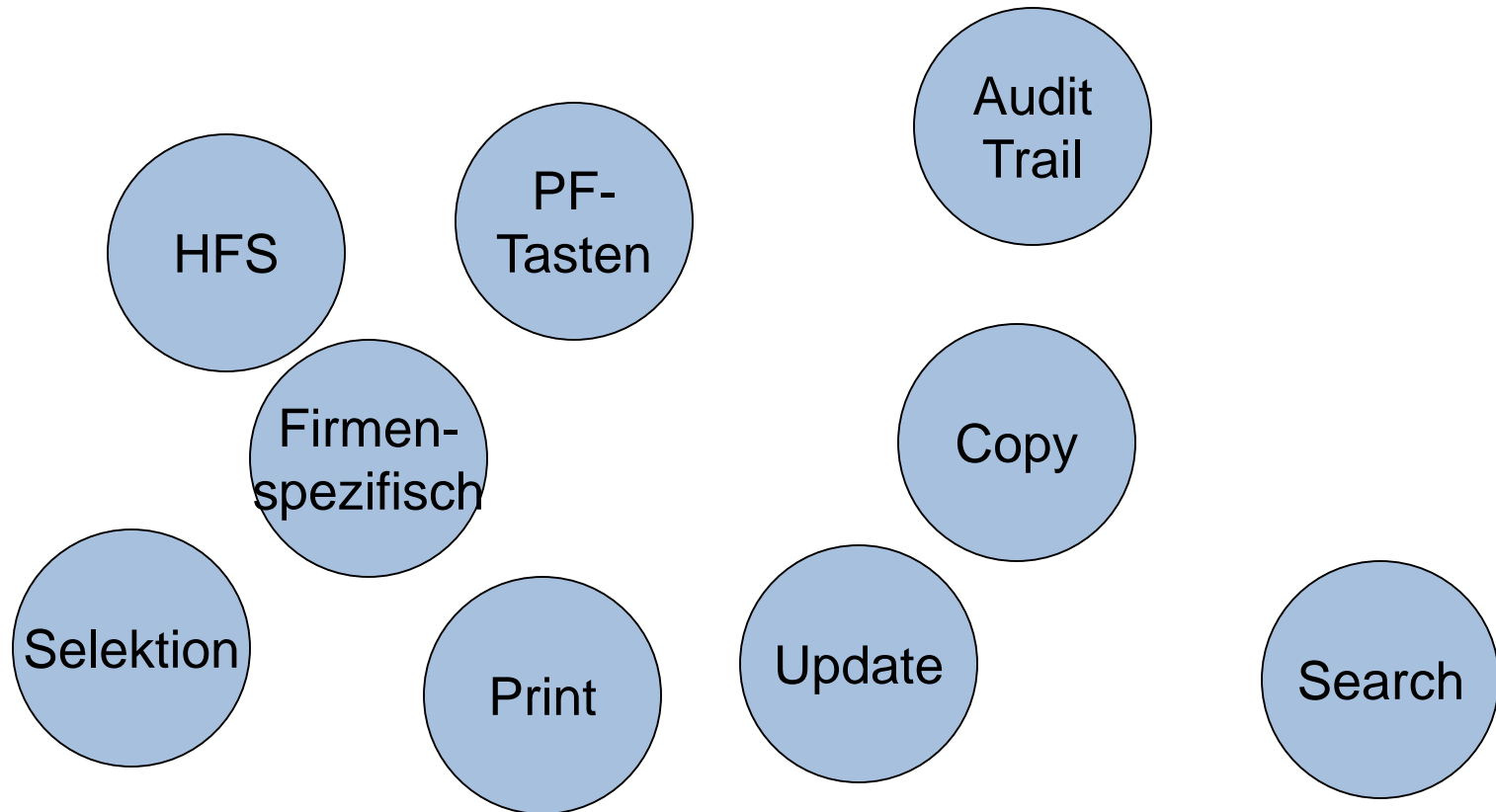
- Primary Commands
siehe separates Dokument
- Line Commands
siehe separates Dokument
- rekursive Commands
siehe separates Dokument

[Link](#)

[Link](#)

[Link](#)

-
- Einführung
 - Einstieg und Überblick
 -  • Optionen
 - Browse und Edit
 - Utilities
 - Print
 - Selektionskriterien
 - XREF-Datei
 - View Record Layout / Reformat
 - Compare



Einstiegsbild

```
File-AID ----- Parameter Selection Menu -----
```

```
OPTION ==>
```

- 0 ISPF - ISPF parameters and File-AID PF keys
- 1 SYSTEM - File-AID system parameters
- 2 SELECTION - Selection criteria default parameters
- 3 PRINT - Print default parameters
- 4 PROCESSING - Processing option default parameters
- 5 AUDIT - Audit file allocation parameters
- 6 HFS - Hierarchical File System Options



System-Parameter

File-AID ----- System Parameters -----
COMMAND ==>

Client number: 060108 Release date: 02/27/2006
Client name : ████████████████████████████████████████████████████████████████

Specify Function Defaults:

Display cancel confirmation	==> Y	(Y = Yes; N = No)
Display "Records not selected" line	==> Y	(Y = Yes; N = No)
Character set	==> DFLT	(Code page identifier)
Enable screen jumps within File-AID	==> N	(Y = Yes; N = No)
VSAM intermediate name	==> X016291	

Specify Work File/Cut File Allocations:

Space units	==> TRKS	(TRKS, CYLS or BLKS)
Primary quantity	==> 10	(in above units)
Secondary quantity	==> 5	(in above units)
Number of Volumes	==> 1	(1 - 59)
Compare KSDS Work File VOLSER	==>	(Blank or VOLSER)

SMS Class Information:

Storage ==> Data ==> Management ==>

Selection criteria-Parameter

File-AID ----- Selection Criteria Parameters -----

COMMAND ==>

Specify Selection Criteria Option Defaults:

		Record selection will continue until
Number of records to search	==> ALL	you have read this many records
Number of records to select	==> ALL	or selected this many records

Specify Processing Direction Used by Browse, Edit, Copy, Print, Search/Update:

Seq/VSAM processing direction ==> F (F = forward; B = backward)

Specify Unformatted Selection Criteria Defaults:

Relational Operator	==> EQ	(Enter any valid relational operator)
Logical connector	==> AND	(AND or OR)

Selection criteria-Parameter – Bedingungsoperatoren

EQ, =	Equal to
NE, \neq	Not equal to
GT, >	Greater than
GE, \geq	Greater than or equal to
LT, <	Less than
LE, \leq	Less than or equal to
CO	Contains
NC	Not contains
BT	Between
NB	Not between
VA	Valid
NV	Not valid

Print-Parameter

```
File-AID ----- Print Parameters -----  
COMMAND ==>  
  
Number of lines/page      ==> 55      (0 = Suppress page headings)  
Sysout class              ==> A  
Number of copies          ==> 1  
  
Enter One of the Following Optional Destinations:  
  
Destination printer       ==>          (Local or remote printer)  
- - - OR - - -  
External JES Node ID     ==>          (Predefined JES Node and symbolic ID  
Target VM/TSO ident      ==>          of intended receiver of output)  
- - - OR - - -  
Sysout writer name       ==>          (Installation assigned output writer)  
- - - OR - - -  
  
                          (DSORG=PS, RECFM=VBA, LRECL=187)  
Print dataset name       ==>  
Disposition               ==> OLD      (NEW; SHR; MOD; OLD)  
Volume serial            ==>
```

Processing-Parameter

File-AID ----- Processing Parameters -----

COMMAND ==>

Specify Record Information Default Used by Search/Update:

Include record information ==> NO (Y = Yes; N = No)

Specify Partitioned Dataset Defaults Used by Copy and Search/Update:

Replace like-named members ==> YES (Y = Yes; N = No)

Copy/Edit entire member ==> YES (Y = Yes; N = No)

Copy empty members ==> NO (Y = Yes; N = No)

Maintain PDS statistics ==> YES (Y = Yes; N = No; A = Add)

Display member selection list ==> YES (Y = Yes; N = No)

Specify Panvalet/Librarian Processing Options:

Expand Panvalet INCLUDEs ==> YES (Y = Yes; N = No)

Expand Librarian INCLUDEs ==> YES (Y = Yes; N = No)

Specify Dataset List Format Option Default:

Format option ==> QUICK (Q = Quick; S = Short)

Audit File-Parameter

```
File-AID ----- Audit File Allocation Parameters -----
```

```
COMMAND ==>
```

```
Specify Audit Trail File Allocation Information:
```

```
Space units          ==> TRKS  (TRKS; CYLS; BLKS)
```

```
Primary quantity    ==> 15   (In above units)
```

```
Secondary quantity  ==> 75   (In above units)
```

```
Specify SMS Class Information:
```

```
Storage             ==>
```

```
Data                ==>
```

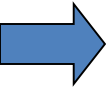
```
Management          ==>
```

Optionen

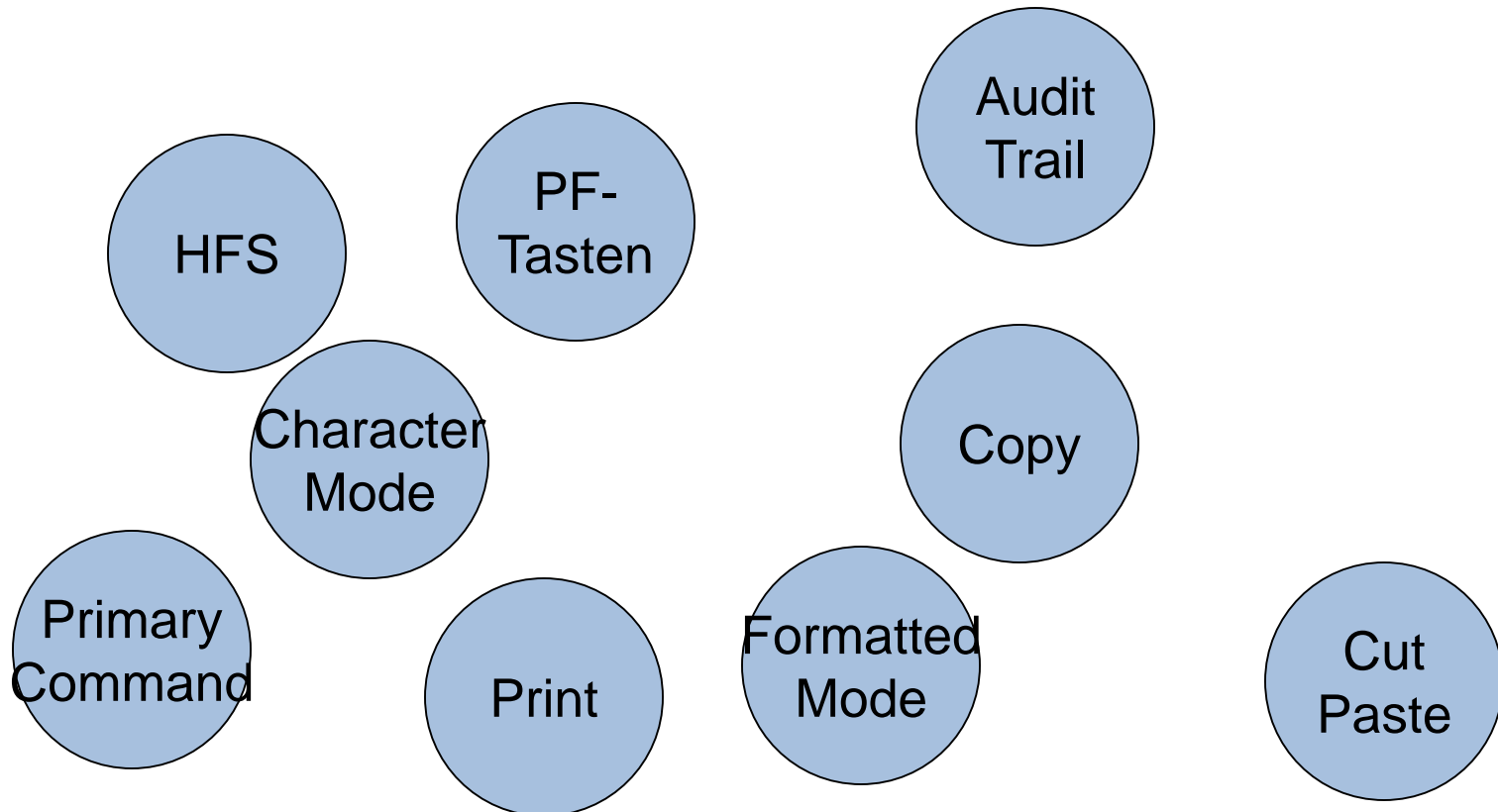
HFS home directory

```
File-AID ----- Hierarchical File System Options -----  
COMMAND ==>  
  
HFS Home Directory      ==>
```



-
- Einführung
 - Einstieg und Überblick
 - Optionen
 -  • Browse und Edit
 - Utilities
 - Print
 - Selektionskriterien
 - XREF-Datei
 - View Record Layout / Reformat
 - Compare

Begriffe



- mehrere Arten von Einstiegen
 - Browse
 - 1 im Primary Option Menu
 - ISPF-Jump =x.1 (mit x = Aufruf von FileAid for MVS)
 - FBROWSE oder FB oder F1 als rekursiver Command
 - Edit
 - 2 im Primary Option Menu
 - ISPF-Jump =x.2 (mit x = Aufruf von FileAid for MVS)
 - FEDIT oder FE oder F2 als rekursiver Command

Dataset Specification Screen

```
File-AID ----- Edit - Dataset Specification -----  
COMMAND ==>  
  
Edit Mode                ==> C                (F=Fmt; C=Char; V=Vfmt; U=Unfmt)  
  
Specify Edit Information:  
  Dataset name or HFS path ==> 'X016291.AD.P.L61401G.LADPKOLX  
  Member name             ==>                 (Blank or pattern for member list)  
  Volume serial           ==>                 (If dataset is not cataloged)  
  Disposition             ==> SHR             (OLD or SHR)  
  Create audit trail      ==> N              (Y = Yes; N = No)  
  
Specify Record Layout and XREF Information:  
  Record layout usage     ==> N              (S = Single; X = XREF; N = None)  
  Record layout dataset   ==> 'TEST.COPYPL1.FILAID.SRC  
  Member name             ==> LTOVTRN1      (Blank or pattern for member list)  
  XREF dataset name       ==>  
  Member name             ==>                 (Blank or pattern for member list)  
  
Specify Selection Criteria Information:      (E = Existing; T = Temporary;  
  Selection criteria usage ==> N              M = Modify; Q = Quick; N = None)  
  Selection dataset name   ==>  
  Member name             ==>                 (Blank or pattern for member list)
```

Last Referenced File List

```
File-AID ----- Last Referenced File List ----- Row 1 to 27 of 40
COMMAND ==> SCROLL ==> CSR
S = Select for processing; M = Modify before processing
I = Info; L = Lock; U = Unlock; D = Delete; P = HFS pathname display
  File Name                SETS  RL  SC  LOCK  REFERENCED
X016291.AD.P.L61401G.LADPKOLX      1
X016291.AD.P.L61401F.LADPKOLX      1      2008/07/15
X016291.AD.P.L61401E.LADPKOLX      1      2008/07/15
X016291.AD.P.L61401A.LADPKOLX      1      2008/07/15
AD.P.L61401F.LTOVTRN                3      2      2008/07/15
AD.P.L61401F.LTOVTRG                1      2008/07/15
AD.P.L61401G.LADPKOLX              1      2008/07/14
AD.P.L61401F.LADPKOLX              1      2008/07/14
AD.P.L61401E.LTOVTRN                3      2      2008/07/14
AD.C.L61401E.LKOLG.NEW.D080711      1      2008/07/14
AD.O.L61401E.LKOLG                 1      2008/07/14
AD.C.L61401E.LKOLG                 1      2008/07/14
AD.P.L61401E.LKOLG.HELP            1      2008/07/14
AD.O.L61401E.LKOLG.HELP            1      2008/07/14
AD.C.L61401E.LKOLG.HELP            1      2008/07/14
```

...

kommt nach „ausblanken“ des DSN-Feldes



4 Anzeigemodi

- Character Mode
- Unformatted Mode
- Formatted Mode
- Vertical Formatted Mode

Character Mode

```
File-AID - Edit - X016291.AD.P.L61401G.LADPKOLX ----- COLUMNS 000001 000072
COMMAND ==>                                SCROLL ==> CSR
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7--
***** ***** TOP OF DATA *****-CAPS OFF-*
000001 011982-10-01*****G*****
000002 011985-10-31*****G*****
000003 011988-04-30*****G*****          -          -          &
000004 012003-12-31*****G*****          -          &
000005 019999-12-31VV*****G*****          rrrr
000006 019999-12-31*****G*45**          rrrr
000007 019999-12-31*****G*46**          rrrr
000008 019999-12-31*****G*****          &          %
000009 022004-12-31*****G*****1          1
...
000018 029999-12-31*****G*05*5          1
000019 029999-12-31*****G*05**          1
000020 029999-12-31*****G*50**          1
000021 029999-12-31*****G*****1          1
000022 029999-12-31*****G*****2          1
000023 029999-12-31*****G*****3          1
000024 029999-12-31*****G*****4          1 n
000025 029999-12-31*****G*****5          1          E
000026 029999-12-31*****G*50**          2          1
000027 029999-12-31*****G*****          2          ^ E
Enter FMT (formatted mode), VFMT (vertical format), UNFMT (unformatted mode)
```

Browse und Edit

Formatted Mode

```
File-AID - Edit - X016291.AD.P.L61401G.LADPKOLX ----- COLUMNS 000001 000131
COMMAND ==>
RECORD:      1          LKWN_LTOVTRN2          LENGTH:    242
----- FIELD LEVEL/NAME ----- -FORMAT- ----+-----1-----+-----2-----+-----3-----+-----4
2 LKWN_LTOVTRN2 ALIGNED          515/GRP
  3 GESELLSCHAFT UNALIGNED       1/CHAR 0
  3 BRANCHE UNALIGNED            2/BFX -3599
  3 KOL_NUMMER UNALIGNED         4/BFX -101125536
  3 KOL_NUMMER_TEXT UNALIGNED    10/CHAR 10-01*****
  3 BETRIEBSNUMMER UNALIGNED     6/CHAR *G****
  3 FIRMA_NAME UNALIGNED         50/CHAR X'5C40404040404040404040404040404040404040404040
      (POS 20-39) 000010000F01200F0000000000F0000000000F0000
      (POS 40-50) 25000F01000F000010000F'
  3 FIRMA_PLZ UNALIGNED          4/BFX 73728
  3 FIRMA_ORT UNALIGNED          15/CHAR X'0F000050000F00800F000025000F00'
  3 TEAM_CODE UNALIGNED          3/CHAR X'000F00'
  3 UB_GA UNALIGNED              4/CHAR X'0470000F'
  3 ART_BETREUUNG UNALIGNED      1/CHAR X'00'
  3 ART_BRIEFABSENDER UNALIGNED
      1/CHAR X'01'
  3 UB_SEKTOR UNALIGNED          1/CHAR X'00'
  3 VERWALTENDE_GA UNALIGNED     2/CHAR X'000F'
  3 BEREICHS_GA UNALIGNED        2/CHAR X'0040'
  3 ANBAHNUNGS_GA UNALIGNED      2/CHAR X'0F00'
  3 AUSSENDIENST_MA UNALIGNED    4/BFX 7667727
Enter CHAR (character mode), VFMT (vertical format), UNFMT (unformatted)
```

Browse und Edit

Vertical Formatted Mode

```
File-AID - Edit - X016291.AD.P.L61401G.LADPKOLX ----- COLUMNS 000001 000023
COMMAND ==>                                     SCROLL ==> CSR
      GESELLSCHAFT BRANCHE  KOL_NUMMER  KOL_NUMMER_TEXT  BETRIEBSNUMMER
      1/CHAR          2/BFX    4/BFX      10/CHAR          6/CHAR
      (1-1)           (2-3)   (4-7)    (8-17)           (18-23)
      2----- 3----- 4----- 5----- 6-----
***** ***** TOP OF DATA *****-CAPS OFF-*
000001 0                -3599  -101125536 10-01***** *G****
000002 0                -3599  -101124768 10-31***** *G****
000003 0                -3599  -101124000 04-30***** *G****
000004 0                -3598  -252644512 12-31***** *G****
000005 0                -3591  -101058208 12-31VV*** *G****
000006 0                -3591  -101058208 12-31***** *G*45*
000007 0                -3591  -101058208 12-31***** *G*46*
000008 0                -3591  -101058208 12-31***** *G****
...
000016 0                -3335  -101058208 12-31***** *G*05*
000017 0                -3335  -101058208 12-31***** *G*05*
000018 0                -3335  -101058208 12-31***** *G*05*
000019 0                -3335  -101058208 12-31***** *G*05*
000020 0                -3335  -101058208 12-31***** *G*50*
000021 0                -3335  -101058208 12-31***** *G****
000022 0                -3335  -101058208 12-31***** *G****
000023 0                -3335  -101058208 12-31***** *G****
000024 0                -3335  -101058208 12-31***** *G****
Enter FMT (formatted mode), CHAR (character mode), UNFMT (unformatted mode)
```


Browse und Edit

Unformatted Mode

```
File-AID - Edit - X016291.AD.P.L61401G.LADPKOLX ----- COLUMNS 000001 000242
```

```
COMMAND ==>
```

```
SCROLL ==> CSR
```

```
RECORD:      1
```

```
LENGTH:     242
```

```
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7
```

```
1 011982-10-01*****G*****
```

```
-----  
71          &          -          &
```

```
-----  
141         rrrrr
```

```
-----  
211
```

```
Enter FMT (formatted mode), VFMT (vertical format), CHAR (character mode)
```

- “reines” Copybook
- eingebettet irgendwo im Source Code

Anzeige mit Record Layout

```
File-AID ----- Record Layout Specification ----- NO LAYOUT EXISTS  
COMMAND ==>
```

Specify Record Layout and XREF Information:

```
Record layout usage    ==> N          (S = Single; X = XREF)
```

```
Record layout dataset  ==> 'TEST.COPYPL1.FILAID.SRC
```

```
Member name           ==> LTOVTRN1   (Blank or pattern for member list)
```

```
XREF dataset name     ==>
```

```
Member name           ==>           (Blank or pattern for member list)
```



Anzeige mit Record Layout

```
File-AID ----- Edit Method Specification -----  
Command ==>
```

```
Dataset name: FR.BIG.UNLOAD
```

```
This sequential file is a candidate for Windowed Edit because it  
exceeds the Windowed Edit Threshold Installation Option.  
Windowed Edit is for files that do not fit into memory and must be edited  
in sections or "windows". Select the edit method (or return and use  
Selection Criteria):
```

```
Edit method ==> 2 (1 = Standard Edit; 2 = Windowed Edit)
```

```
Standard Edit is for files that you can load into memory. All File-AID  
edit commands are available.
```

```
Windowed Edit is for SEQUENTIAL files that are too large to load into  
memory. Changes are entered into a window determined by your screen size.  
Records are updated when the window is moved. The following commands are  
unavailable: INSERT DELETE REPEAT SORT COPY MOVE EXCLUDE.
```

```
Use ENTER to continue, END to return, or HELP for more information.
```

Audit Trail (nur Edit)

```
File-AID ----- Disposition of Audit Trail -----
COMMAND ==>

Audit trail disposition ==>          (PK = Print dataset and keep;
                                     PD = Print dataset and delete;
                                     D  = Delete dataset without printing)

Audit trail dataset      ==> 'X016291.FILEAID.AUDT.D080728.T192526'

Audit trail description ==>
                          ==>

Specify Batch JCL Information:
  Sysout class           ==> *

Specify JOB Statement Information:
  ==> //X016291C JOB (FLO,TE), 'RALF SEIDLER',CLASS=T,
  ==> //          MSGCLASS=S,MSGLEVEL=(1,1),NOTIFY=&SYSUID
  ==> //*-----
  ==> /**

Use JCL command to edit generated JCL
Use ENTER to submit batch job
Use END to keep audit trail without printing
```



Felder mit fehlerhaften Daten finden – Einstieg

```
File-AID ----- Edit - Dataset Specification -----
COMMAND ==> [ENTER]

Edit Mode ==> V (F=Fmt; C=Char; V=Vfmt; U=Unfmt)

Specify Edit Information:
Dataset name or HFS path ==> FASAMP.EMPLOYEE
Member name ==> (Blank or pattern for member list)
Volume serial ==> (If dataset is not cataloged)
Disposition ==> OLD (OLD or SHR)
Create audit trail ==> N (Y = Yes; N = No)

Specify Record Layout and XREF Information:
Record layout usage ==> S (S = Single; X = XREF; N = None)
Record layout dataset ==> FASAMP.LAYOUTS
Member name ==> EMPLOYEE (Blank or pattern for member list)
XREF dataset name ==> 'XV8822D.KURS.FAIDXREF'
Member name ==> (Blank or pattern for member list)

Specify Selection Criteria Information: (E = Existing; T = Temporary;
Selection criteria usage ==> N M = Modify; Q = Quick; N = None)
Selection dataset name ==> FASAMP.SELCRIT
Member name ==> (Blank or pattern for member list)
```

Geht auch mit
anderen
Formaten

Felder mit fehlerhaften Daten finden – positionieren

```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- COLUMNS 000001 000033
COMMAND ==> DISplay 19 only                                SCROLL ==> CSR
EMP-NUMBER EMP-LAST-NAME  EMP-FIRST-NAME EMP-MID-INIT FILLER
5/AN        15/AN           10/AN        1/AN          2/AN
(1-5)       (6-20)              (21-30)      (31-31)      (32-33)
1----- 2----- 3----- 4----- 5-----
***** ***** TOP OF DATA *****-CAPS OFF-*
000001 00090      MARTIN        EDWARD        M
000002 00100      MULSTROM      ROBERTA       A
000003 00200      JACKSON       JOSEPH        C
000004 10000      ANDREWS       GEORGE
000005 15000      MURPHY        RONALD        L
000006 18034      SCHNEIDER     ELLEN         C
000007 21035      JONES         GEORGE        B
000008 25100      ROBERTS       WILLIAM       R
000009 27007      ALLEN         JOYCE         M
000010 30001      RICHARDS      REX           W
000011 31000      SAVAGE        JONATHON      C
000012 34010      SMITH         JANET
000013 34011      JACOBS        DIANA
000014 36010      SIMPSON       ALEX
000015 39310      BARNETT       EDWARD        E
000016 39500      WILLIAMS      EDITH         A
000017 41000      RICHARDSON    MARJORIE      M
000018 41400      MOORE         THOMAS        M
```

so etwas wie
„ONLY“ oder
mit PF11
nach rechts
scrollen oder
oder „HOLD“

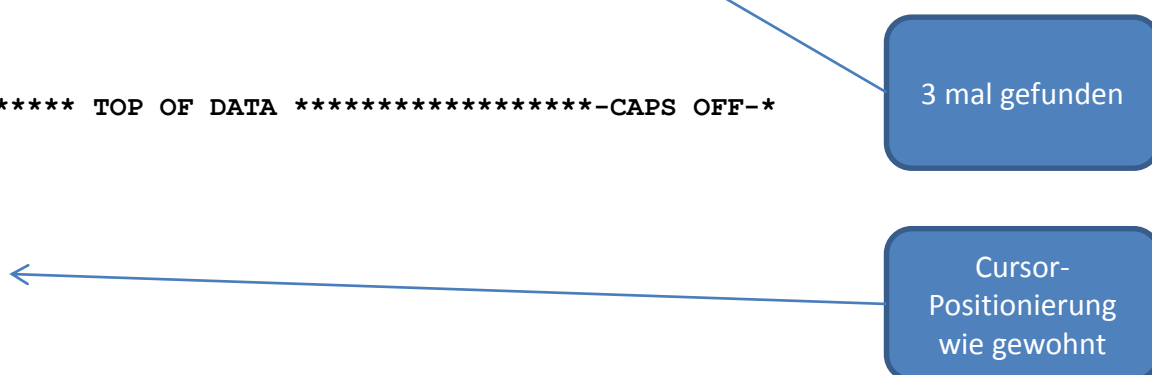
Felder mit fehlerhaften Daten finden – Fehler suchen

```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- COLUMNS 000001 000095
COMMAND ==> f invalid /19 all ← SCROLL ==> CSR
EMP-NATL-TAX-WITHOLD-PCT
3/PS
(93-95)
19-----
***** ***** TOP OF DATA *****-CAPS OFF-*
000001                -74.00
000002                55.00
000003                55.00
000004 INVALID
000005                7.00
000006                65.00
000007                49.00
000008                45.00
000009 INVALID
000010                50.00
000011                44.00
000012                30.00
000013                35.00
000014                45.00
000015                60.00
000016                30.00
000017                30.00
000018                42.50
```

Find command
auch mit Panel-
unterstützung

Felder mit fehlerhaften Daten finden – weiter suchen

```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- 3 EQ INVALID FOUND
COMMAND ==> PF5                                SCROLL ==> CSR
      EMP-NATL-TAX-WITHOLD-PCT
      3/PS
      (93-95)
      19-----
***** ***** TOP OF DATA *****-CAPS OFF-*
000001                -74.00
000002                 55.00
000003                 55.00
000004 INVALID
000005                 7.00
000006                 65.00
000007                 49.00
000008                 45.00
000009 INVALID
000010                 50.00
000011                 44.00
000012                 30.00
000013                 35.00
000014                 45.00
000015                 60.00
000016                 30.00
```

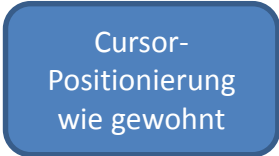


3 mal gefunden

Cursor-Positionierung wie gewohnt

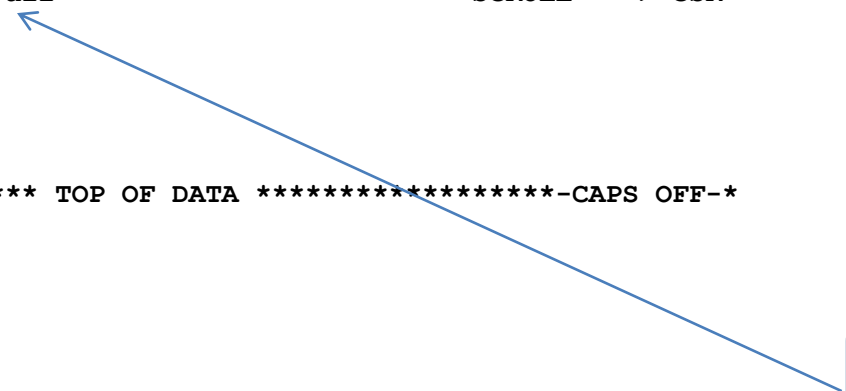
Felder mit fehlerhaften Daten finden – weiter suchen

```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- X'006250' FOUND
COMMAND ==> [PF5]                                SCROLL ==> CSR
      EMP-NATL-TAX-WITHOLD-PCT
      3/PS
      (93-95)
      19-----
***** ***** TOP OF DATA *****-CAPS OFF-*
000001                -74.00
000002                 55.00
000003                 55.00
000004 INVALID
000005                 7.00
000006                 65.00
000007                 49.00
000008                 45.00
000009 INVALID
000010                 50.00
000011                 44.00
000012                 30.00
000013                 35.00
000014                 45.00
000015                 60.00
000016                 30.00
```



Felder mit fehlerhaften Daten finden – korrigieren

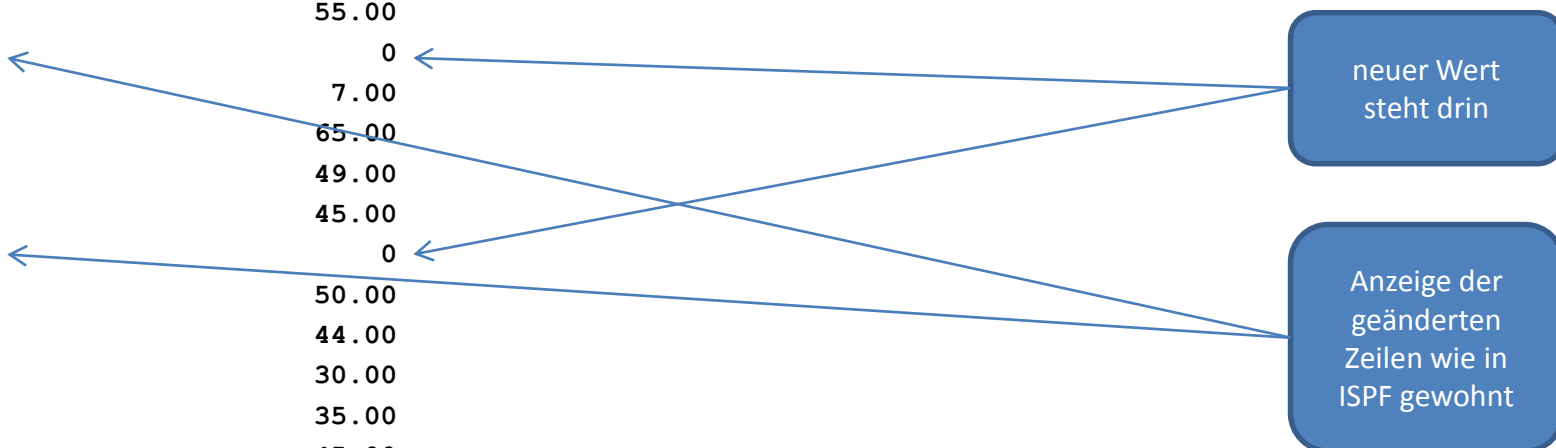
```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- X'040040' FOUND
COMMAND ==> Change invalid 0 /19 all                               SCROLL ==> CSR
EMP-NATL-TAX-WITHOLD-PCT
3/PS
(93-95)
19-----
***** ***** TOP OF DATA *****-CAPS OFF-*
000018                42.50
000019                50.00
000020                47.00
000021                25.00
000022                25.00
000023                35.00
000024 INVALID
000025                40.00
000026                40.00
000027                40.00
000028                30.00
000029                25.00
```



ändern wie
notwendig

Felder mit fehlerhaften Daten finden – zeigen

```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- EQ INVALID CHANGED
COMMAND ==> PF8                                SCROLL ==> CSR
EMP-NATL-TAX-WITHOLD-PCT
3/PS
(93-95)
19-----
***** ***** TOP OF DATA *****-CAPS OFF-*
000001                -74.00
000002                 55.00
000003                 55.00
==CHG>                 0
000005                 7.00
000006                65.00
000007                 49.00
000008                 45.00
==CHG>                 0
000010                 50.00
000011                 44.00
000012                 30.00
000013                 35.00
000014                 45.00
000015                 60.00
```



neuer Wert steht drin

Anzeige der geänderten Zeilen wie in ISPF gewohnt

Browse und Edit

Felder mit fehlerhaften Daten finden – speichern

```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- COLUMNS 000001 000095
COMMAND ==> pf3                                SCROLL ==> CSR
      EMP-NATL-TAX-WITHOLD-PCT
      3/PS
      (93-95)
      19-----
000020                47.00
000021                25.00
000022                25.00
000023                35.00
==CHG>                 0
000025                40.00
000026                40.00
000027                40.00
000028                30.00
000029                25.00
000030                30.00
000031                25.00
000032                25.00
000033                35.00
000034                50.00
000035                20.00
000036                39.00
```

Felder mit fehlerhaften Daten finden – fertig

```
File-AID ----- Edit - Dataset Specification ----- DATASET SAVED
COMMAND ==>

Edit Mode                ==> V                (F=Fmt; C=Char; V=Vfmt; U=Unfmt)

Specify Edit Information:
  Dataset name or HFS path ==> FASAMP.EMPLOYEE
  Member name              ==>                (Blank or pattern for member list)
  Volume serial            ==>                (If dataset is not cataloged)
  Disposition              ==> OLD            (OLD or SHR)
  Create audit trail       ==> N            (Y = Yes; N = No)

Specify Record Layout and XREF Information:
  Record layout usage      ==> S            (S = Single; X = XREF; N = None)
  Record layout dataset    ==> FASAMP.LAYOUTS
  Member name              ==> EMPLOYEE     (Blank or pattern for member list)
  XREF dataset name        ==> 'XV8822D.KURS.FAIDXREF'
  Member name              ==>                (Blank or pattern for member list)

Specify Selection Criteria Information:      (E = Existing; T = Temporary;
  Selection criteria usage ==> N            M = Modify; Q = Quick; N = None)
  Selection dataset name   ==> FASAMP.SELCRIT
  Member name              ==>                (Blank or pattern for member list)
```



Felder mit bestimmten Daten finden – Einstieg

```
File-AID ----- Edit - Dataset Specification -----
COMMAND ==> [ENTER]

Edit Mode ==> V (F=Fmt; C=Char; V=Vfmt; U=Unfmt)

Specify Edit Information:
Dataset name or HFS path ==> FASAMP.EMPLOYEE
Member name ==> (Blank or pattern for member list)
Volume serial ==> (If dataset is not cataloged)
Disposition ==> OLD (OLD or SHR)
Create audit trail ==> N (Y = Yes; N = No)

Specify Record Layout and XREF Information:
Record layout usage ==> S (S = Single; X = XREF; N = None)
Record layout dataset ==> FASAMP.LAYOUTS
Member name ==> EMPLOYEE (Blank or pattern for member list)
XREF dataset name ==> 'XV8822D.KURS.FAIDXREF'
Member name ==> (Blank or pattern for member list)

Specify Selection Criteria Information: (E = Existing; T = Temporary;
Selection criteria usage ==> N M = Modify; Q = Quick; N = None)
Selection dataset name ==> FASAMP.SELCRIT
Member name ==> (Blank or pattern for member list)
```

Geht auch mit
anderen
Formaten

Felder mit bestimmten Daten finden – ausschließen

```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- COLUMNS 000001 000033
COMMAND ==> EXclude ne pa /emp-state all                SCROLL ==> CSR
EMP-NUMBER EMP-LAST-NAME EMP-FIRST-NAME EMP-MID-INIT FILLER
5/AN        15/AN          10/AN          1/AN          2/AN
(1-5)      (6-20)          (21-30)       (31-31)      (32-33)
1----- 2----- 3----- 4----- 5-----
***** ***** TOP OF DATA *****-CAPS OFF-*
000001 00090      MARTIN          EDWARD          M
000002 00100      MULSTROM        ROBERTA         A
000003 00200      JACKSON         JOSEPH          C
000004 10000      ANDREWS         GEORGE
000005 15000      MURPHY          RONALD          L
000006 18034      SCHNEIDER       ELLEN           C
000007 21035      JONES           GEORGE          B
000008 25100      ROBERTS         WILLIAM         R
000009 27007      ALLEN           JOYCE           M
000010 30001      RICHARDS        REX             W
000011 31000      SAVAGE          JONATHON        C
000012 34010      SMITH           JANET
000013 34011      JACOBS          DIANA
000014 36010      SIMPSON         ALEX
000015 39310      BARNETT         EDWARD          E
000016 39500      WILLIAMS        EDITH           A
000017 41000      RICHARDSON      MARJORIE        M
000018 41400      MOORE           THOMAS          M
```

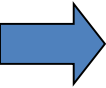
suchen:
EMP-STATE = PA

Browse und Edit

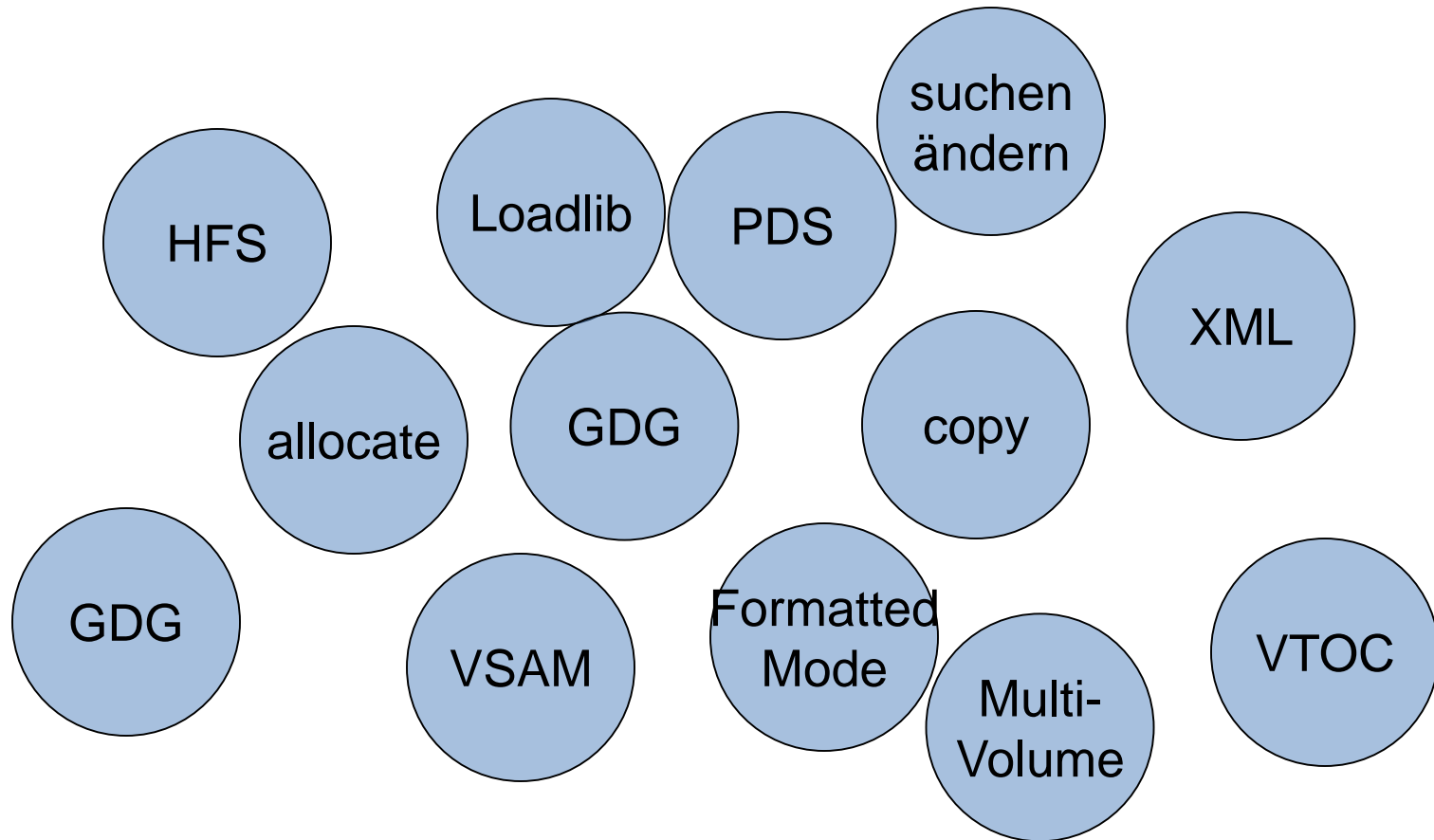
Felder mit bestimmten Daten finden – Ergebnis

```
File-AID - Edit - XV8822D.FASAMP.EMPLOYEE ----- 46 NE 'pa' EXCLUDED
COMMAND ==>                                SCROLL ==> CSR
      EMP-NUMBER EMP-LAST-NAME   EMP-FIRST-NAME EMP-MID-INIT FILLER
      5/AN       15/AN          10/AN          1/AN         2/AN
      (1-5)      (6-20)        (21-30)        (31-31)      (32-33)
      1----- 2----- 3----- 4----- 5-----
***** ***** TOP OF DATA *****-CAPS OFF-*
- - - - - 25 RECORD(S) NOT DISPLAYED
000026 63660      ELLIOT          ARNOLD          F
- - - - - 8 RECORD(S) NOT DISPLAYED
000035 90000      FRANKLIN        BEN
- - - - - 5 RECORD(S) NOT DISPLAYED
000041 90030      EISENHOWER      DWIGHT          D
- - - - - 3 RECORD(S) NOT DISPLAYED
000045 90050      KENNEDY         JOHN            F
- - - - - 5 RECORD(S) NOT DISPLAYED
***** ***** BOTTOM OF DATA *****-CAPS OFF-*
```



-
- Einführung
 - Einstieg und Überblick
 - Optionen
 - Browse und Edit
 -  • Utilities
 - Print
 - Selektionskriterien
 - XREF-Datei
 - View Record Layout / Reformat
 - Compare

Begriffe



Überblick

- Funktionen ähnlich wie ISPF gestaltet
- Wiedererkennbarkeit hoch
- einzelne Funktionen gehen teilweise weit über die ISPF-Möglichkeiten hinaus

Überblick

```
File-AID ----- Extended Utilities -----  
OPTION ===>
```

- 1 LIBRARY - Display and modify directory entries; display load module CSECT maps; browse, delete, rename PDS members
- 2 DATASET - Display dataset information; allocate non-VSAM datasets and GDGs; catalog, uncatalog, delete, or rename datasets
- 3 COPY - Copy entire datasets; copy selected records; copy PDS members based on name, statistics and/or content
- 4 CATALOG - Display generic catalog entries or VSAM datasets on a volume in list form and do dataset list processing
- 5 VSAM - Allocate, display, delete, modify, or rename VSAM clusters, alternate indexes, or paths; manage IAM files
- 6 SEARCH/UPDATE - FIND and CHANGE across PDS members. Search for and/or update data globally in any type of dataset.
- 7 VTOC - Display and process datasets on a volume(s)
- 8 INTERACTIVE - Execute File-AID/Batch
- 9 BATCH SUBMIT - Build batch jobstreams
- G XMLGEN - Generate an XML tagged document from data file

```
Copyright (c) 1982 - 2004, by Compuware Corporation. All rights reserved.
```



Library Utility (3.1)

```
File-AID ----- Library Utility -----  
OPTION ==>  
  
  A - Map CSECTs in address order          B - Browse member  
  N - Map CSECTs in name order            D - Delete member  
  I - Display directory entry of member    R - Rename member  
  BLANK - Display member list  
  
Dataset name   ==> 'SYS1.LINKLIB'  
Member name   ==>          (Blank or pattern for member list)  
  
New name      ==>  
  
Volume serial ==>          (If not cataloged)  
  
Disposition   ==> SHR      (SHR or OLD)  
  
Process Option ==> 0       (0 = Online, B = Batch)
```

Library Utility – Load Library

```
File-AID ----- Load Library Processing Options -----  
COMMAND ===>
```

```
Library Dataset: sample.LOAD
```

```
Specify Member Selection Options (Blank for All Members)
```

```
Member name mask ===>
```

```
Member name range ===> to ===>
```

```
Member Rmode ===> (24, ANY)
```

```
Member Amode ===> (24, 31, 64, ANY)
```

```
Member Link Date ===> to ===> (CCYY/MM/DD)
```

```
(Member Selection List MUST be NO to use Link Date filter)
```

```
Display member selection list ===> (Y = Yes; N = No)
```

```
Use ENTER to continue, END to return to dataset specification screen
```

Library Utility – Load Library – address Liste

```
File-AID ADDRESS List of SYS1.LINKLIB(IEBCOPY) ----- FUNCTION COMPLETED
COMMAND ===>                               SCROLL ===> CSR
IEBCOPY was linked on 2000/03/23 by BINDER
- Symbol - Type  ADDR  Length  Tname 1    Tdate 1  Tname 2    Tdate 2  A/R mode
-----
  IEBCOMCA  SD   00000    1000  HLASM      99/08/18                24/ 24
                IDENT  00/03/23  UW62382
  IEBMCA    LD   00000
  PATCHMCA  LD   00FB2
  IEBCOMCB  SD   01000    2000  HLASM      99/08/18                24/ 24
  IND$C     LD   01000
  OUTD$C    LD   01200
  UT3D$C    LD   01400
  UT4D$C    LD   01600
  LOADD$C   LD   01800
  UNLDD$C   LD   01A00
  BPAMD$C   LD   01C00
  PRTAREA   LD   02000
  RDCAREA   LD   02200
  H1AREA    LD   02400
  H2AREA    LD   024A0
  DDNTAB    LD   02620
  STKAREA   LD   026A8
  STKEND    LD   02FF8
```


Library Utility – Load Library – Liste der Csects

```
File-AID NAME List of SYS1.LINKLIB(IEBCOPY) ----- FUNCTION COMPLETED
COMMAND ===>                               SCROLL ===> CSR
IEBCOPY was linked on 2000/03/23 by BINDER
- Symbol - Type  ADDR  Length  Tname 1   Tdate 1   Tname 2   Tdate 2  A/R mode
-----
BPAMD$C    LD   01C00
CALLFAMS   LD   06A84
DDNTAB     LD   02620
DVU$EXIT   LD   0FFD4
H1AREA     LD   02400
H2AREA     LD   024A0
IEBCDUMP   SD   20D38      0 HLASM    00/01/24      24/ 24
IEBCFAMS   SD   064C8      8FE HLASM    98/10/18      ANY/ANY
           IDENT  98/10/18 RSI82912670
IEBCFIOX   SD   06DC8     106C HLASM    98/10/18      ANY/ANY
           IDENT  98/10/18 RSI82912670
IEBCFIX    LD   06DE8
IEBCFIXC   LD   07204
IEBCFIX0   LD   070CA
IEBCFOX    LD   072AA
IEBCFOX0   LD   076E8
IEBCMSG    SD   17280     A11 HLASM    98/10/18      31/ANY
           IDENT  98/10/18 RSI82912672
IEBCMSGF   LD   17A4C
```

Library Utility – Load Library – Directory Information

```
File-AID ----- Directory Information -----
COMMAND ==>

Dataset: SYS1.LINKLIB(IEBCOPY)                                TTR 057B0D
----- Directory entry in HEX format -----
Char IEBCOPY .#...#.....B....H.....P..
Zone CCCCDDDE40702071000000C0036C030B000016900
Numr 952367805BDE5BA00000222D8480008040119711
     ....+.....1....+.....2....+.....3....+.....4

SSI:   01116997

----- Link edit attributes -----
EP      003000      SIZE (HEX) 020D38      (DEC) 134,456
RENT    NO          OVLY          NO          SCTR          NO
REUS    NO          DC           NO          NE            NO
REFR    NO          EP ZERO      NO          ZERO ORIGIN   YES
OL      NO          TEST         NO          TEST SYMBOLS  NO
EXEC    YES         RLD          YES         1 BLOCK/NO RLD NO
RMODE   24          PAGE ALIGN   YES         APF CODE      001
AMODE   24

Use END to return to directory menu
```



Library Utility – Memberliste

```
File-AID Library Utility - USERID9.FASAMP.JCL ----- Row 1 to 17 of 17
COMMAND ==>                                     SCROLL ==> CSR
      I = directory Entry; D = Delete; R = Rename; B = Browse; E = Edit
```

```
-----
S  NAME      RENAME      VV.MM  CREATED  LAST MODIFIED  SIZE  INIT  MOD  ID
BATVTOC      01.00  95/02/03  95/02/03  15:44         23   23    0  USERID9
COPY         01.00  95/02/03  95/02/03  15:44         22   22    0  USERID9
CVT6XMAP     01.00  95/02/03  95/02/03  15:44         37   37    0  USERID9
CVT70SEL     01.00  95/02/03  95/02/03  15:44         22   22    0  USERID9
CVT70XRF     01.00  95/02/03  95/02/03  15:44         21   21    0  USERID9
DROP         01.00  95/02/03  95/02/03  15:44         20   20    0  USERID9
DUMP         01.00  95/02/03  95/02/03  15:44         18   18    0  USERID9
JCLCNVRT     01.00  95/02/03  95/02/03  15:44         23   23    0  USERID9
LIST         01.00  95/02/03  95/02/03  15:44         17   17    0  USERID9
PRINT        01.00  95/02/03  95/02/03  15:44         18   18    0  USERID9
SAMPLE01     01.00  95/02/03  95/02/03  15:44         14   14    0  USERID9
SAMPLE02     01.00  95/02/03  95/02/03  15:44         17   17    0  USERID9
SKELETON     01.00  95/02/03  95/02/03  15:44         23   23    0  USERID9
SPACE        01.00  95/02/03  95/02/03  15:44         20   20    0  USERID9
TALLY        01.00  95/02/03  95/02/03  15:44         21   21    0  USERID9
UPDATE       01.00  95/02/03  95/02/03  15:44         27   27    0  USERID9
USER         01.00  95/02/03  95/02/03  15:44         31   31    0  USERID9
```

```
***** Bottom of data *****
```



Dataset Utility (3.2)

```
File-AID ----- Dataset Utility -----  
OPTION ===>
```

```
A - Allocate SEQ/PDS dataset          D - Delete dataset  
B - Allocate BDAM dataset             R - Rename dataset  
C - Catalog dataset                   U - Uncatalog dataset  
I - Allocate ISAM dataset             F - Free unused space  
G - Define generation data group      S - Dataset information (short)  
M - Enhanced dataset allocation (SMS) BLANK - Display dataset information
```

```
Specify Dataset Information:
```

```
Dataset name      ===>  
Volume serial    ===>          (If not cataloged)
```

```
Specify Model Dataset Information:
```

```
Dataset name      ===>
```

```
Specify Catalog to use if other than Default System Catalog:
```

```
Catalog name      ===>  
Catalog password  ===>          (If catalog is password protected)
```

```
-----  
For dataset allocations only, the optional model dataset is used to  
prefill the allocation information on the allocation panel. This  
dataset is not mandatory for dataset allocations.
```



Dataset Utility – interessante Features

- Informationen über VSAM-Dateien
- VSAM-Dateien interaktiv anlegen
- Informationen über GDGs
- GDGs interaktiv anlegen
- Informationen über Multi-Volume-DSN



Copy Utility (3.3) – sequentielle Datei

```
File-AID ----- Copy Utility -----  
COMMAND ==>  
  
Specify "FROM" Dataset or HFS Path Information:  
  Dataset name  ==> 'USERID9.FASAMP.JCL'  
  Volume serial ==>                               (If not cataloged)  
  
Specify "TO" Dataset or HFS Path Information:  
  Dataset name  ==> 'USERID9.FASAMP.LAYOUTS'  
  Volume serial ==>                               (If not cataloged)  
  Disposition   ==> OLD                           (OLD, MOD, NEW)  
  
Specify Execution Information:  
  Process online or batch  ==> 0                 (0 = Online; B = Batch)  
  
Specify Selection Criteria Information:      (E = Existing; T = Temporary;  
  Selection criteria usage  ==> M                 M = Modify; Q = Quick; N = None)  
  Selection dataset name   ==> 'USERID9.FASAMP.SELCRIT'  
  Member name              ==> ORDRFILC (Blank or pattern for member list)
```



Copy Utility – PDS

```
File-AID ----- PDS Processing Options -----  
COMMAND ===>  
  
FROM Dataset: USERID9.FASAMP.XREF  
  Copy entire member          ===> Y          (Y = Yes;  
                                           N = No, selected records only)  
  Copy empty members          ===> N          (Y = Yes; N = No)  
  Process in JCL format       ===> N          (Y = Yes; N = No)  
  
TO Dataset:  USERID9.FASAMP.LAYOUTS  
  Replace like-named members  ===> Y          (Y = Yes; N = No)  
  
  Rename copied members mask  ===>  
  
Specify Member Selection Options (Blank for All Members)  
  Member name mask            ===>  
  Member name range           ===>           to ===>  
  Last modified userid        ===>           to ===>  
  Creation date                ===>           to ===>           (YY/MM/DD)  
  Modification date           ===>           to ===>           (YY/MM/DD)  
  
  Display member selection list ===> Y          (Y = Yes; N = No)  
  
Use ENTER to continue, END to return to copy utility screen
```

Copy Utility – PDS – Optionen (1)

PDS Processing Option Fields											
Copy Utility Screen Information	Copy entire member	Copy empty member	Process in JCL format	Replace like-named members	Rename copied members mask	Member name mask	Member name range	Last modified userid	Creation date	Modification date	Display Member Selection
Copying from PDS to PDS No member name specified No selection criteria usage		X		X	X	X	X	X	X	X	X
Copying from PDS to PDS No member name specified Using selection criteria	X	X	X	X	X	X	X	X	X	X	X
Copying from PDS to PDS Member name specified No selection criteria usage		X		X							
Copying from PDS to PDS Member name is specified Using selection criteria	X	X	X	X							
Copying from PDS to Non-PDS No selection criteria specified						X	X	X	X	X	X

Copy Utility – PDS – Optionen (2)

PDS Processing Option Fields											
Copy Utility Screen Information	Copy entire member	Copy empty member	Process in JCL format	Replace like-named members	Rename copied members mask	Member name mask	Member name range	Last modified userid	Creation date	Modification date	Display Member Selection
Copying from PDS to Non-PDS Selection criteria is specified	X		X			X	X	X	X	X	X
Copying from Loadlib to Loadlib No member name specified Selection Criteria not allowed				X		X	X				X
Copying from Loadlib to Loadlib Member name specified Selection Criteria not allowed				X							
Copying Loadlib to PDSE Loadlib No member name specified Selection Criteria not allowed				X		X	X				X
Copying Loadlib to Loadlib PDSE w/alias No member name specified Selection Criteria not allowed Display member selection list=NO				X		X					X ^a



Catalog Utility (3.4)

```
File-AID ----- Catalog Utility -----  
OPTION ===>  
  
  V - produce volume list of VSAM datasets (non-ICF catalogs only)  
  BLANK - generic catalog search  
  
Generic catalog search function:  
  Search name   ===>  
  Format option ===> QUICK (Quick, Short, Long)  
  Clusters only ===> Y     (Y or N)  
  
Volume dataset list function:  
  Volume serial ===>         (required for option "V")  
  Translate DSN ===> N       (Y OR N)  
  
Catalog to search if other than default system catalog:  
  Catalog name   ===>  
  Catalog password ===>         (if catalog is password protected)  
  
  Display confirm screen: ===> Y (Y=yes, N=no)
```



Catalog Utility – Liste der VSAM-Dateien (V)

```
File-AID - VSAM Dataset List/ Volume TS0I01 ----- 157 DATASETS SELECTED
COMMAND ===>                                     SCROLL ==> CSR
CATALOG: CATALOG.VTSOIO1                          Dataset   Allocatn   Status
----- D a t a s e t   N a m e -----   Type Comp   Type
CATALOG.VTSOIO1                                CTLG        SUB-AL
VS.TSOIO01.ESDS.DATA                          CLST DATA  UNIQUE
VSV.CCCC.EEE.REPTFILX.DATA                   CLST DATA  UNIQUE
VSV.CCCC.JJJ.REPTFILE.DATA                   CLST DATA  SUB-AL
VSV.CCCC.JJJ.REPTFILX.DATA                   CLST DATA  UNIQUE
VSV.CCCC.NNN.REPTFILX.DATA                   CLST DATA  UNIQUE
VSV.CCCC.PPP.REPTFILX.DATA                   CLST DATA  UNIQUE
VSV.CCCC.RRR.REPTFILX.DATA                   CLST DATA  UNIQUE
VSV.CCCC.TTT.REPTFILX.DATA                   CLST DATA  UNIQUE
VSV.CCCC.TUU.DUMPFILX.DATA                   CLST DATA  UNIQUE
VSV.CCCCCG.REPTFILX.DATA                     CLST DATA  UNIQUE
VSV.CCCCCG.TEMP.STORAGE.DATA                 CLST DATA  UNIQUE
VSV.CCCCCG.TRANS.DATA.DATA                   CLST DATA  UNIQUE
VSV.CCCCCJ.DATA01.DATA                       CLST DATA  UNIQUE
VSV.CCCCCJ.DATA01.INDEX                      CLST INDX   UNIQUE
VSV.CCCCCJ.DATA03.DATA                       CLST DATA  UNIQUE
VSV.CCCCCJ.DATA03.INDEX                      CLST INDX   UNIQUE
VSV.CCCCCJ.DATA04.DATA                       CLST DATA  UNIQUE
VSV.CCCCCJ.DATA04.INDEX                      CLST INDX   UNIQUE
VSV.CCCCCJ.REPTFILX.DATA                     CLST DATA  UNIQUE
```



Catalog Utility – Ausgabeformat quick

```
File-AID - Catalog Utility Dataset List ----- 27 DATASETS SELECTED
COMMAND ===>                                SCROLL ===> CSR
----- D A T A S E T   N A M E -----      --Type--      -Status-
TSOID01.BATCH.OUTPUT                          NON-VSAM
TSOID01.BBDEV.TEXT                            NON-VSAM
TSOID01.BBDOC1.LIST                           NON-VSAM
TSOID01.BBLETTER.SALES                        NON-VSAM
TSOID01.BBLETTER.TEXT                         NON-VSAM
TSOID01.BBPRES.TEXT                           NON-VSAM
TSOID01.BBPROBS.TEXT                          NON-VSAM
TSOID01.BBSTAT.TEXT                           NON-VSAM
TSOID01.BB77.PRES                             NON-VSAM
TSOID01.BB77.PRESNT                           NON-VSAM
TSOID01.III.TEXT                              NON-VSAM
TSOID01.ISPPROF                               NON-VSAM
TSOID01.ISR0001.BACKUP                        NON-VSAM
TSOID01.JJJ.TEST                              NON-VSAM
TSOID01.MACLIB                                NON-VSAM
TSOID01.PPDEMO.DEV                            NON-VSAM
TSOID01.PPDEMO.DEV2                           NON-VSAM
TSOID01.PVJOB.TEXT                            NON-VSAM
TSOID01.SAAAAAAA.TEXT                         NON-VSAM
TSOID01.SEEEEEE.CONTENT                       NON-VSAM
TSOID01.SEEEEEE.MATTER                       NON-VSAM
```

Catalog Utility – Ausgabeformat short

```
File-AID - Catalog Utility Dataset List ----- 27 DATASETS SELECTED
COMMAND ===>
          SCROLL ===> CSR
----- D A T A S E T   N A M E ----- --Type--   -Volume-   -Status-
TSOID01.BATCH.OUTPUT                NON-VSAM   TS0D08
TSOID01.BBDEV.TEXT                   NON-VSAM   TS0001
TSOID01.BBDOC1.LIST                  NON-VSAM   ARCV01
TSOID01.BBLETTER.SALES                NON-VSAM   TS0D02
TSOID01.BBLETTER.TEXT                 NON-VSAM   ARCV02
TSOID01.BBPRES.TEXT                   NON-VSAM   TS0002
TSOID01.BBPROBS.TEXT                  NON-VSAM   ARCV03
TSOID01.BBSTAT.TEXT                   NON-VSAM   ARCV03
TSOID01.BB77.PRES                     NON-VSAM   TS0001
TSOID01.BB77.PRESNT                   NON-VSAM   TS0D03
TSOID01.III.TEXT                      NON-VSAM   ARCV02
TSOID01.ISPPROF                       NON-VSAM   TS0002
TSOID01.ISR0001.BACKUP                 NON-VSAM   TS0002
TSOID01.JCL.TEST                       NON-VSAM   TS0D03
TSOID01.MACLIB                         NON-VSAM   TS0D02
TSOID01.PPDEMO.DEV                     NON-VSAM   TS0D10
TSOID01.PPDEMO.DEV2                     NON-VSAM   TS0D10
TSOID01.PVJOB.TEXT                     NON-VSAM   TS0001
TSOID01.SAAAAAAA.TEXT                  NON-VSAM   TS0001
TSOID01.SEEEEEE.CONTENT                 NON-VSAM   TS0D03
TSOID01.SEEEEEE.MATTER                 NON-VSAM   TS0D02
```

Catalog Utility – Ausgabeformat long

```
File-AID - Catalog Utility Dataset List ----- 27 DATASETS SELECTED
COMMAND ===>
----- D A T A S E T   N A M E ----- Org Volume Fmt Trks %Us Xt
TSOID01.BATCH.OUTPUT          PO  TS0D08 FB  750   6  1
TSOID01.BBDEV.TEXT            PO  TS0001 FB   36  44  1
TSOID01.BBDOC1.LIST           ARCV01
TSOID01.BBLETTER.SALES        PO  TS0D02 FB   15  13  1
TSOID01.BBLETTER.TEXT         ARCV02
TSOID01.BBPRES.TEXT           PO  TS0002 FB    5  40  1
TSOID01.BBPROBS.TEXT          ARCV03
TSOID01.BBSTAT.TEXT           ARCV03
TSOID01.BB77.PRES             PO  TS0001 FBA  45   2  1
TSOID01.BB77.PRESNT          PO  TS0D03 FB   45  87  1
TSOID01.III.TEXT              ARCV02
TSOID01.ISPPROF               PO  TS0002 FB    4  25  1
TSOID01.ISR0001.BACKUP        PS  TS0002 U    1 100  1
TSOID01.JCL.TEST              PO  TS0D03 FB   15   7  1
TSOID01.MACLIB                PO  TS0D02 FB    4  50  1
TSOID01.PPDEMO.DEV            PO  TS0D10 FB   60  82  2
TSOID01.PPDEMO.DEV2           PO  TS0D10 FB  120  98  6
TSOID01.PVJOB.TEXT            PO  TS0001 FB    7  57  1
TSOID01.SAAAAAAA.TEXT         PO  TS0001 FB   48  33  1
TSOID01.SEEEEEE.CONTENT       PO  TS0D03 FB    7 100  6
TSOID01.SEEEEEE.MATTER        PO  TS0D02 VB    2  50  1
```



Catalog Utility – mögliche Commands

Command	Description	Limitations
B	ISPF/PDF Browse	Sequential, PDS
E	ISPF/PDF Edit	Sequential, PDS
R	Rename	All access methods
U	Uncatalog	All non-VSAM access methods
D	Delete	All access methods
M	Modify	VSAM
I	Display information	All access methods
S	Display information--short	All access methods
F	Free unused space	Sequential, PDS, BDAM
1	File-AID Browse	All access methods
2	File-AID Edit	All access methods
6	File-AID Search/Update utility	All access methods



VSAM Utility (3.5)

```
File-AID ----- VSAM Utility -----
OPTION ==>

A      - Allocate cluster           D - Delete
S      - Allocate dataspace        DR - Delete/Define
X      - Allocate alternate index   T - Delete dataspace
B      - Build alternate index      P - Allocate path
BLANK - Display dataset information  R - Rename component
                                           M - Modify component

Specify Dataset Information:
Dataset name           ==> 'TS01128.DEMO.VSAM'
Volume serial         ==>                (Required for option S & T)

Process Online or Batch ==> 0          (0 = Online: B = Batch)

Specify Model Dataset Information:
Dataset name          ==>

Specify Catalog to use if other than Default System Catalog:
Catalog name         ==>
Catalog password     ==>                (if catalog is password protected)
-----
For dataset allocations only, the optional model dataset is used to
prefill the allocation information on the allocation panel.
```


VSAM Utility – auch Multi Volume

```
File-AID ----- Allocate VSAM Cluster (continued) -----  
COMMAND ==>
```

```
-----  
DATA COMPONENT: 'USERID9.MULTI.DATA'
```

```
Enter number of volumes here ==>      or specific VOLSERS below:
```

```
  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. _____  
 31. _____ 32. _____ 33. _____ 34. _____ 35. _____  
 36. _____ 37. _____ 38. _____ 39. _____ 40. _____
```

```
-----  
INDEX COMPONENT: 'DFHLLM0.MULTI.INDEX'
```

```
Enter number of volumes here ==>      or specific VOLSERS below:
```

```
  1. _____  2. _____  3. _____  4. _____  5. _____
```



VSAM Utility – Parameter ändern

```
File-AID ----- VSAM Modify -----  
COMMAND ==>  
Cluster:                VSV.TS0ID01.TEST.KSDS  
Owner ID                 ==> USERID9  
Specify Current Options:  
  Buffer size             ==> 6144  
  Region share option    ==> 3          (1; 2; 3; 4)  
  System share option    ==> 3          (3; 4)  
  % free bytes/CI        ==> 0          (0 - 100)  
  % free CI/CA           ==> 0          (0 - 100)  
  Inhibit update         ==> NO         (Y = Yes; N = No)  
  Write check            ==> NO         (Y = Yes; N = No)  
  Erase on delete        ==> NO         (Y = Yes; N = No)  
  MSS-destage wait       ==> NO         (Y = Yes; N = no)  
  MSS binding            ==> STAGE      (S = Stage B = Bind C = Cylinder fault)  
  Expiration Date        ==>           (YYYY/MM/DD or blank)  
  
Specify SMS Class Information:  
  Storage    ==>           Management ==>
```

Use ENTER to modify data, END to cancel request



Search/Update Utility (3.6) – Funktionen

- Dateien „in place“ ändern
- suchen und ändern über PDS-Member
- Massenänderungen von JCL-Bibliotheken
- Anzeige vor Änderung
- Selektionsmöglichkeiten



Search/Update Utility

```
File-AID ----- Search/Update Utility -----
OPTION ==> m

M Member - PDS Find/Change and Member list processing
B Browse - Browse globally
U Update - Preview and Update globally

Specify Search/Update Dataset Information:
  Dataset name ==> fasamp.jcl
  Disposition  ==> shr           (OLD or SHR)
  Volume serial ==>             (If not cataloged)

Process online or batch      ==> o      (O = Online; B = Batch)

Specify Execution Information:
  Create audit trail          ==> N      (Option U online)
  Preview and confirm update ==> Y      (Y = Yes; N = No)
  Maximum changes            ==> ALL    (Y = Yes; N = No)
                                   (All or number of changes)

Specify Selection Criteria Information:
  Selection criteria usage    ==> q      (Options M and B)
                                   (Existing; Temp; Mod; Quick; None)
  Selection dataset name     ==>
  Member name                ==>      (Blank or pattern for member list)
```

Search/Update Utility – PDS Processing Options

```
File-AID ----- PDS Processing Options -----  
COMMAND ==> [ENTER]  
  
Dataset: USERID.FASAMP.JCL  
  
      Process in JCL format          ==> N          (Y = Yes; N = No)  
  
Specify Member Selection Options (Blank for All Members)  
Member name mask                    ==>  
Member name range                   ==>           to ==>  
Last modified userid                ==>           to ==>  
Creation date                       ==>           to ==>           (YY/MM/DD)  
Modification date                   ==>           to ==>           (YY/MM/DD)  
  
Use ENTER to continue, END to return to dataset specification screen
```

Search/Update Utility – change/find absetzen

```
File-AID - PDS Find/Change - USERID.FASAMP.JCL ----- Row 1 of 5
COMMAND ==> change                                     SCROLL ==> CSR
  Use FIND or CHANGE command to process across the following members.
  (Omit FIND/CHANGE operands for a prompt panel.)
  Use RESET command to get a full member list.
  Use E, S, B or X line commands to Edit, Browse or eXclude members.
-----
 S  NAME          HITS VV.MM  CREATED      CHANGED      SIZE  INIT  MOD  ID
 COPY             1 01.03 95/02/03 96/06/10 12:21   23   22   0 PFHEDP0
 DROP             1 01.02 95/02/03 96/06/10 12:21   21   20   0 PFHEDP0
 SAMPLE01         2 01.00 95/02/03 95/02/03 15:44   14   14   0 USERID9
 SAMPLE02         2 01.00 95/02/03 95/02/03 15:44   17   17   0 USERID9
 USER             3 01.02 95/02/03 96/06/10 12:23   32   31   0 PFHEDP0
***** Bottom of data *****
```

Search/Update Utility – change-Parameter

```
File-AID ----- PDS Change Command -----  
COMMAND ==> [ENTER]  
  
From string      ==> UNIT=####  
To string        ==> UNIT=TEST1  
  
Start column     ==>           End column ==>  
  
Relational operator ==> CO      (CO, EQ, NE, LT, LE, GE, GT)  
  
Confirm changes   ==> Y        (Y = Yes; N = No)  
Condense member list ==> Y      (Y = Yes; N = No)  
PDS statistics    ==> Y        (Y = Yes; N = No; A = Add)  
  
Maximum changes   ==> ALL      (ALL or number of changes)  
  
You may bypass this screen by entering the CHANGE command with operands:  
  
C(HANGE) string-1 string-2 ((NO)CONFirm) ((NO)CONDense) (col-1 (col-2)) Max(n)  
  
EXAMPLES:  c abc xyz           change abc (upper or lower case) to XYZ  
           c c'Abc' c'xyz'      change Abc (exactly as entered) to xyz  
           c a,b,c xyz         change a or b or c (upper or lower case) to XYZ  
           c "a,b,c" xyz       change a,b,c (upper or lower case) to XYZ
```

Search/Update Utility – Voranzeige

```
Menu Utilities Compilers Help
-----
BROWSE      USERID.FILEAID.WF.D99214.T091456          Line 00000000 Col 001 080
Command ==> [PF3]                                     Scroll ==> PAGE
ER041-Records-read=107 listed=9 with 9 changes
==>USERID.FASAMP.JCL OPENED AS PO,RECFM=FB,LRECL=80,BLKSIZE=3120,VOL=PRD938
*****MEMBER COPY *****
//          UNIT=TEST1,SPACE=(TRK,(1,1))
*****MEMBER DROP *****
//          UNIT=TEST1,SPACE=(TRK,(1,1))
*****MEMBER SAMPLE01*****
//          UNIT=TEST1,SPACE=(TRK,(1,1)),
//          UNIT=TEST1,SPACE=(TRK,(1,1)),
*****MEMBER SAMPLE02*****
//          UNIT=TEST1,SPACE=(TRK,(1,1)),
//          UNIT=TEST1,SPACE=(TRK,(1,1)),
*****MEMBER USER *****
//          UNIT=TEST1,SPACE=(TRK,(1,1))
//          UNIT=TEST1,SPACE=(TRK,(1,1))
//          UNIT=TEST1,SPACE=(TRK,(1,1))
***** Bottom of Data *****
```


Search/Update Utility – Änderungen bestätigen

```
File-AID ----- Search/Update Confirm Update -----  
COMMAND ==>  
ER041-Records-read=107 listed=9 with 9 changes  
  
Ready to perform update  
  
Perform update           ==> Y           (Y = Yes; N = No)  
Print previewed changes ==> N           (Y = Yes; N = No)  
Maximum changes         ==> ALL         (All or number of changes to perform)  
Maintain PDS statistics ==> Y           (Y = Yes; N = No; A = Add)  
  
Instructions:  
  
Use ENTER to perform above actions and return to the initial screen  
Use END to exit without UPDATE or PRINT  
  
CAUTION:  DISP=SHR was specified.  Other users may be editing this  
          file and some of your changes may be lost.
```

Search/Update Utility – PDS global ändern

```
File-AID ----- Search/Update Utility -----
OPTION ==> u

M Member - PDS Find/Change and Member list processing
B Browse - Browse globally
U Update - Preview and Update globally

Specify Search/Update Dataset Information:
  Dataset name   ==> fasamp.jcl
  Disposition   ==> old           (OLD or SHR)
  Volume serial ==>              (If not cataloged)

Process online or batch      ==> O      (O = Online; B = Batch)

Specify Execution Information:      (Option U online)
  Create audit trail          ==> N      (Y = Yes; N = No)
  Preview and confirm update ==> Y      (Y = Yes; N = No)
  Maximum changes             ==> ALL    (All or number of changes)

Specify Selection Criteria Information: (Options M and B)
  Selection criteria usage    ==> n      (Existing; Temp; Mod; Quick; None)
  Selection dataset name      ==>
  Member name                  ==>      (Blank or pattern for member list)
```

Search/Update Utility – PDS Processing Options

```
File-AID ----- PDS Processing Options -----  
COMMAND ==> [ENTER]  
  
Dataset: USERID.FASAMP.JCL  
  
    Include record information      ==> N          (Y = Yes; N = No)  
    Process in JCL format         ==> y          (Y = Yes; N = No)  
    Maintain PDS statistics        ==> Y          (Y = Yes; N = No; A = Add)  
  
Specify Member Selection Options (Blank for All Members)  
Member name mask                  ==>  
Member name range                 ==>           to ==>  
Last modified userid              ==>           to ==>  
Creation date                     ==>           to ==>           (YY/MM/DD)  
Modification date                 ==>           to ==>           (YY/MM/DD)  
  
Display member selection list ==> Y          (Y = Yes; N = No)  
  
Use ENTER to continue, END to return to dataset specification screen
```

Search/Update Utility – PDS Member selektieren

```
File-AID Member S/X - USERID.FASAMP.JCL ----- Row 1 of 20
COMMAND ===> [PF3]                                SCROLL ===> CSR
```

S/X	NAME	VV.MM	CREATED	CHANGED	SIZE	INIT	MOD	ID
	BATVTOC	01.03	95/02/03	96/06/10 12:21	24	23	0	PFHEDP0
s	COPY	01.03	95/02/03	96/06/10 12:21	23	22	0	PFHEDP0
	CVTIMSXR							
	CVTIMSX2							
	CVTIMSX3	01.00	97/10/14	97/10/14 10:46	27	27	0	PFHNEC0
	CVT6XMAP	01.02	95/02/03	96/06/10 12:21	38	37	0	PFHEDP0
	CVT70SEL	01.02	95/02/03	96/06/10 12:21	23	22	0	PFHEDP0
	CVT70XRF	01.02	95/02/03	96/06/10 12:21	22	21	0	PFHEDP0
s	DROP	01.02	95/02/03	96/06/10 12:21	21	20	0	PFHEDP0
	DUMP	01.02	95/02/03	96/06/10 12:22	19	18	0	PFHEDP0
	JCLCNVRT	01.02	95/02/03	96/06/10 12:22	24	23	0	PFHEDP0
	LIST	01.02	95/02/03	96/06/10 12:22	18	17	0	PFHEDP0
	PRINT	01.02	95/02/03	96/06/10 12:22	19	18	0	PFHEDP0
s	SAMPLE01	01.00	95/02/03	95/02/03 15:44	14	14	0	USERID9
s	SAMPLE02	01.00	95/02/03	95/02/03 15:44	17	17	0	USERID9
	SKELETON	01.02	95/02/03	96/06/10 12:22	24	23	0	PFHEDP0
	SPACE	01.02	95/02/03	96/06/10 12:22	21	20	0	PFHEDP0
	TALLY	01.02	95/02/03	96/06/10 12:22	22	21	0	PFHEDP0
	UPDATE	01.02	95/02/03	96/06/10 12:22	28	27	0	PFHEDP0
s	USER	01.02	95/02/03	96/06/10 12:23	32	31	0	PFHEDP0

***** Bottom of data *****

Search/Update Utility – Definition der Änderungen

```
File-AID ----- Search/Update Change Criteria ----- Row 1 of 20  
COMMAND ==> [PF3]                                SCROLL ==> CSR
```

Use END to continue, CANCEL to return to main screen.

Relational Operator R (Replace) overlays existing data. E (Edit) shifts existing data. When preceded by CO (Contains), R or E changes first occurrence of search value in each record, RA or EA changes all occurrences.

```
      AND  
Cmd /OR Position Length RO          Search Value / Update Value  
-----  
___  1___          CO DISP=(NEW_____  
___ AND 1___          co UNIT=####_____  
___  +0___          e_ UNIT=SYSDA_____  
___ OR  1___          co DISP=(NEW_____  
___ AND 1___          co UNIT=TEST1_____  
___  +0___          e_ UNIT=SYSDA_____  
___ AND _____  
___ AND _____  
___ AND _____  
___ AND _____  
___ AND _____  
___ AND _____  
___ AND _____
```

Search/Update Utility – Operatoren

- CO – Contains (default)
- NC – Does not contain
- EQ – Equal
- NE – Not equal
- LT – Less than
- LE – Less than or equal
- GE – Greater than or equal
- GT – Greater than



VTOC Utility (3.7)

```
File-AID ----- VTOC Utility -----
OPTION ===>

  I - List volume information
  M - Map VTOC entries in pack location sequence (CCCCC-HH)
  BLANK - List VTOC entries in dataset name sequence

Volume Selection Information:
  Volume serial   ===>
  Unit name      ===>
  Volume status  ===>                (PUB=Public; PRV=Private; STG=Storage)

Generic Search Function:
  Search dataset name  ===>
  Max number of names  ===> 1000    (For multi-volume operations)

Catalog to use if other than Default System Catalog:
  Catalog name      ===>
  Catalog password  ===>                (If catalog is password protected)

Display confirm delete  ===> Y    (Y=yes, N=no)
```

VTOC Utility – Ausgabe Volumes

```
File-AID - Volume list for VOLSER=TS000----- 10 VOLUMES LISTED
COMMAND ==>
          SCROLL ==> CSR
  --- V O L U M E --- %   --- V T O C ---   ----- F R E E -----
  Serial type   stat used  size %used INDX   DSCB'S  Cyls  (Max) Tracks  (Max)
  TS0D01  3380   STG  97   29   32   Y    1042    7    3    346    56
  TS0D02  3380   STG  97   29   37   N     972    3    3    342    48
  TS0D03  3380   STG 100   29   31   N    1059    0    0     31     4
  TS0D04  3380   STG  99   29   29   N    1086    3    2    167    48
  TS0D05  3380   PRV  96   29   22   N    1200   33   32   525   493
  TS0D06  3380   STG 100   29   13   N    1340    0    0     33     3
  TS0D07  3350   PRV  86   29    7   N    1270   73   49  2352  1482
  TS0D08  3350   PRV  58   29    7   N    1269  227  164  7073  4924
  TS0D09  3380   STG  59   29    8   N    1419  356  355  5422  5325
  TS0D10  3380   STG  76   29   14   N    1325  209   70  3227  1050
  *****
  ***** BOTTOM OF DATA *****
```


VTOC Utility – Selektion eines Volume

```
File-AID - Utility VTOC list for TS0I03 (3380) ----- 442 DATASETS LISTED
COMMAND ===>                                SCROLL ===> PAGE
VTOC:      29 Tracks ( 29 % used)   1088 Free DSCB'S           442 Datasets
VOL:     13290 Tracks ( 98 % used)    15 Tracks/cylinder       15 ALT Tracks
FREE:       7 Cylinders (MAX= 7)     234 Tracks (MAX= 105)    13 Free Xtnts
----- D A T A S E T   N A M E ----- ORG   Trks %Used XTS=   Status
CSDDATA                    VS      15   ?    1
CSDINDEX                   VS       1   ?    1
XX.YY.ATTENDS.APROD        PO      90  90    2
XX.YY.ATTENDS.JCL          PO       5  20    1
XX.YY.ATTENDS.OBJECT       PO     102  45    1
XX.YY.JCL                   PO      13  38    1
XX.YY.PROD.ISPMLIB         PO       2  50    1
XX.YY.PROD.STTDDDD         PO      45  84    1
XX.YY.R501.PROD.LOAD       PO       3  67    1
XX.YY.R501.PROD.SOURCE     PO      10  80    1
XX.YY.R502.PRODPDS         PS      60  90    1
XX.YY.R502.TREPORT         PO      15  60    1
XX.YY.R503.MXA.STTDDDD     PO      42  19    1
XX.YY.R513.PRODPDS         PS      60  98    1
XX.YY.R520.PRODOBJ         PS     135  97    1
XX.YY.SAMPLES              PO      58  40    1
XX.YY.TELEX                 PO      15  20    1
XX.YY.TEST.VAL             PO      20  40    1
```

VTOC Utility – Commands

Command	Description	Limitations
B	Browse	Sequential, PDS
E	Edit	Sequential, PDS
R	Rename	All access methods
C	Catalog	All non-VSAM access methods
U	Uncatalog	All non-VSAM access methods
D	Delete	All access methods
M	Modify	VSAM
I	Display information	All access methods
S	Display information--short	All access methods
F	Free unused space	Sequential, PDS, BDAM
1	File-AID Browse	All access methods
2	File-AID Edit	All access methods
6	File-AID Search/Update utility	All access methods

... und weitere Möglichkeiten zur Analyse von Platten



Interactive Utility (3.8) / Batch Submit Utility (3.9)

- Test von Batchfunktionen
- separate Schulung FileAid MVS Batch



XML Generierung (3.G)

```
File-AID ----- XMLGEN Data File Specification -----  
COMMAND ==>  
  
Specify Input Dataset:  
Dataset name    ==>  
Member name     ==>                               (Blank or pattern for member list)  
Volume serial   ==>  
  
Specify Record Layout and XREF Information:  
Record layout usage    ==> S           (S = Single; X = XREF)  
Record layout dataset  ==> FASAMP.LAYOUTS  
Member name           ==> EMPLOYEE   (Blank or pattern for member list)  
XREF dataset name     ==> 'USERID9.FASAMP.XREF'  
Member name          ==>                               (Blank or pattern for member list)  
  
Specify Selection Criteria Information:      (E = Existing; T = Temporary;  
Selection criteria usage ==> N           M = Modify; Q = Quick; N = None)  
Selection dataset name  ==> FASAMP.SELECT  
Member name            ==>                               (Blank or pattern for member list)
```

XML Generierung – processing Options

```
File-AID ----- XMLGEN - Processing Options -----  
COMMAND ==>
```

```
Specify Execution Options:
```

```
Records to process    ==> ALL      (ALL or maximum number)  
Invalid field action ==> H        (H = Hex; D = Data; S = Skip)
```

```
Specify XML Output Information:
```

```
Dataset or path ==>  
Member name     ==>              (Blank or pattern for member list)  
Disposition     ==> NEW          (NEW; SHR; MOD; OLD)  
Volume Serial   ==>              (If dataset is not cataloged)
```

```
Use ENTER to continue, END to cancel
```

XML Generierung – Angaben für JCL

```
File-AID ----- XMLGEN - JCL Specification -----  
COMMAND ==>  
  
JCL Information for Batch Processing:  
  
Sysout class    ==> R  
  
JOB Statement Information:  
==> //USERID9C JOB ('OFABAS8.8.0DEV',81,),'MACHLAY',  
==> //          CLASS=U,MSGCLASS=R,NOTIFY=USERID9  
==>  
==>  
  
Use JCL command to edit generated JCL  
Use SUBMIT command to submit batch job  
Use END to return to main XMLGEN panel without submitting job
```

XML Generierung – generierte JCL

```
File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          SYS01039.T132506.RA000.USERID9.R0121547          Columns 00001 00072
Command ==>                                           Scroll ==> PAGE
***** ***** Top of Data *****
000001 //USERID9C JOB ('OFABAS8.9.0DEV',81,),'USER',
000002 //          CLASS=U,MSGCLASS=R,NOTIFY=USERID9
000003 /** YOU ARE VIEWING JCL THAT FILE-AID 8.9 HAS GENERATED TO
000004 /** PERFORM THE REQUIRED FUNCTION.
000005 /**
000006 /** YOU CAN CHANGE THIS JCL IF DESIRED AND USE THE SUBMIT PRIMARY
000007 /** COMMAND TO SUBMIT THE JOB. THE CREATE OR REPLACE PRIMARY COMMAND
000008 /** CAN BE USED TO KEEP THIS JOBSTREAM FOR FUTURE USE.
000009 /**
000010 /** USE THE END COMMAND TO EXIT WITHOUT SUBMITTING THE JOB.
000011 /**
000012 //JS10          EXEC PGM=FILEAID,REGION=6M
000013 //STEPLIB      DD  DISP=SHR,DSN=XXXXXXX.FA.V8R8M0.LOAD
000014 //SYSPRINT     DD  SYSOUT=R
000015 //SYSLIST      DD  SYSOUT=R
000016 //DD01         DD  DSN=FASAMP.EMPLOYEE,
000017 //              DISP=SHR
000018 //DD010        DD  DSN=USERID9.FASAMP.NEWXML,
000019 //              DISP=OLD
000019 //DD01RL       DD  DSN=USERID9.FASAMP.LAYOUTS,
000019 //              DISP=SHR
000019 //SYSIN        DD  *
000019 $$$DD01 XMLGEN INVALID=HEX,OUT=0,LAYOUT=EMPLOYEE
000019 /*
000019 //
```

XML Generierung – Ergebnis

```
File-AID - Edit - HINRXG0.TEST.XML ----- COLUMNS 000001 000072
COMMAND ==>                                SCROLL ==> CSR
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7--
***** ***** TOP OF DATA *****-CAPS OFF-*
000001 <?xml version="1.0"?>
000002 <FILE DSN="HINRXG0.FASAMP.EMPLOYEE">
000003   <EMPLOYEE-MASTER-FILE KEY="00090">
000004     <EMP-NUMBER>00090</EMP-NUMBER>
000005     <EMP-LAST-NAME>MARTIN</EMP-LAST-NAME>
000006     <EMP-FIRST-NAME>EDWARD</EMP-FIRST-NAME>
000007     <EMP-MID-INIT>M</EMP-MID-INIT>
000008     <EMP-TITLE>AIRPLANE MANUFACTURER</EMP-TITLE>
000009     <EMP-PERSONAL-INFO>
000010       <EMP-NATL-ID-NUMBER>427890125</EMP-NATL-ID-NUMBER>
000011       <EMP-DATE-OF-BIRTH>101954</EMP-DATE-OF-BIRTH>
000012       <EMP-HIRE-DATE>920101</EMP-HIRE-DATE>
000013       <EMP-MARITAL-STATUS>M</EMP-MARITAL-STATUS>
000014     </EMP-PERSONAL-INFO>
000015     <EMP-WITHOLD-INFO>
000016       <EMP-LIFE-INS-WITHOLD-AMT>-3000.00</EMP-LIFE-INS-WITHOLD-AMT>
000017       <EMP-NATL-TAX-WITHOLD-PCT>-74.00</EMP-NATL-TAX-WITHOLD-PCT>
000018       <EMP-REGION-TAX-WITHOLD-PCT>25.00</EMP-REGION-TAX-WITHOLD-PCT>
000019       <EMP-LOCAL-TAX-WITHOLD-PCT>5.00</EMP-LOCAL-TAX-WITHOLD-PCT>
Enter FMT (formatted mode), VFMT (vertical format), UNFMT (unformatted mode)
```

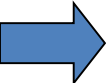
Here is the resulting XML document, which is the output from the previously submitted job.

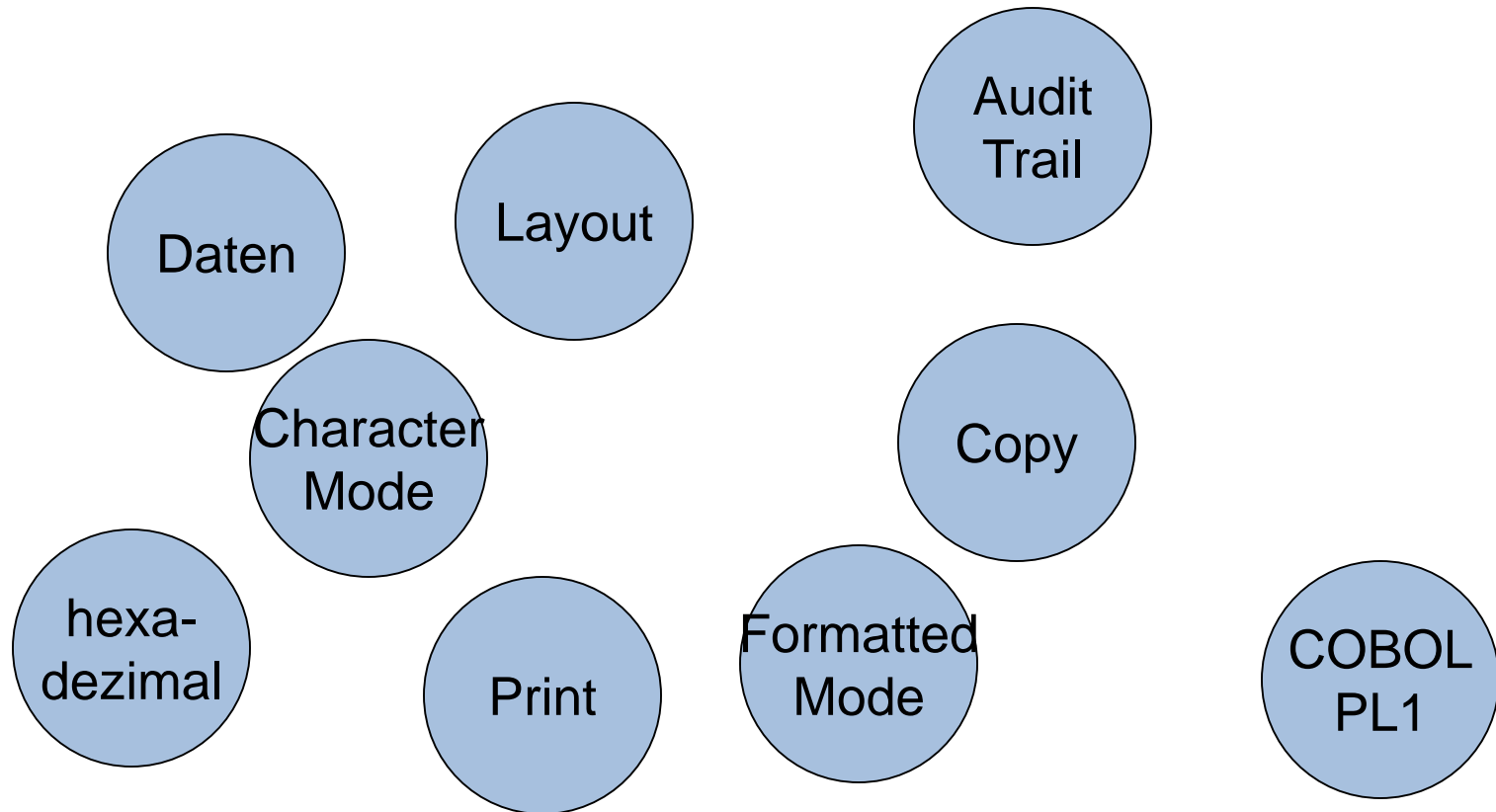


XML Generierung – im Online

- Einstieg über Edit – formatted
- Primary Command – xmlgen
- eingeben processing options
- Zielfilei allokkieren
- Meldung im Edit, wenn erfolgreich
- fertig



-
- Einführung
 - Einstieg und Überblick
 - Optionen
 - Browse und Edit
 - Utilities
 -  • Print
 - Selektionskriterien
 - XREF-Datei
 - View Record Layout / Reformat
 - Compare



Funktionen

- gesamte Datei
- Auswahl von Sätzen
- selektierte Sätze
- XREFs
- Layout-Unterstützung
- Audit-Trail



Selection Menu

```
File-AID ----- Print Selection Menu -----  
OPTION ===>  
  
 1 Data File          - Print the contents of a data file:  
                       in formatted mode using record layout  
                       in vertical formatted mode using record layout  
                       in three-line hexadecimal mode  
                       in single-line character mode  
  
 2 Record Layout XREF - Print the contents of a record layout XREF:  
                       Print a record layout XREF  
                       Print XREF with referenced record layouts  
  
 3 Selection Criteria - Print the contents of selection criteria  
  
 4 Record Layout      - Print a record layout in formatted mode  
  
 5 Audit Trail        - Print the contents of an audit trail
```



Ausgabe Druck Datei – formatiert

08 JAN 2004 File-AID 8.9 PRINT FACILITY 15:47:32 PAGE 1

File Printed Type FILE CONTENTS REPORT
USERID9.FASAMP.EMPLOYEE
VSAM KSDS

RECORD: 1 EMPLOYEE-MASTER-FILE
---- FIELD LEVEL/NAME ----- -FORMAT- ----+-----1-----+-----2-----+-----3-----+-----4

5	EMP-NUMBER	5/AN	00090
5	EMP-LAST-NAME	15/AN	MARTIN
5	EMP-FIRST-NAME	10/AN	EDWARD
5	EMP-MID-INIT	1/AN	M
5	FILLER	2/AN	
5	EMP-TITLE	30/AN	AIRPLANE MANUFACTURER
5	EMP-PERSONAL-INFO SYNC	23/GRP	
10	EMP-NATL-ID-NUMBER	9/NUM	427890125
10	FILLER	1/AN	
10	EMP-DATE-OF-BIRTH	6/AN	101954
10	EMP-HIRE-DATE	6/AN	920101
10	EMP-MARITAL-STATUS	1/AN	M
5	EMP-WITHOLD-INFO SYNC	15/GRP	
10	EMP-LIFE-INS-WITHOLD-AMT	DISPLAY	30000}
		6/SNUM	-3000.00
10	EMP-NATL-TAX-WITHOLD-PCT	3/PS	-74.00
10	EMP-REGION-TAX-WITHOLD-PCT	3/PS	25.00
10	EMP-LOCAL-TAX-WITHOLD-PCT	3/PS	5.00
5	EMP-HOME-ADDRESS SYNC	50/GRP	
10	EMP-STREET-ADDRESS	25/AN	859 O'FARREL ST.
10	FILLER	1/AN	
10	EMP-CITY	15/AN	SAN FRANCISCO
10	EMP-STATE-PROV-CNTY SYNC	4/GRP	
15	EMP-STATE	2/AN	CA
15	FILLER	2/AN	
10	EMP-POSTAL-CODE	5/NUM	12121
5	EMP-EMERGENCY-CONTACT SYNC	47/GRP	
10	EMP-CONTACT-NAME	25/AN	BILL JONES
10	FILLER	2/AN	
10	EMP-CON-WORK-PHONE	10/AN	4085555897
10	EMP-CON-HOME-PHONE	10/AN	4155556981

08 JAN 2004 File-AID 8.9 PRINT FACILITY 15:47:32 PAGE 1

File Printed Type FILE CONTENTS REPORT
USERID9.FASAMP.EMPLOYEE
VSAM KSDS

RECORD: 2 EMPLOYEE-MASTER-FILE
---- FIELD LEVEL/NAME ----- -FORMAT- ----+-----1-----+-----2-----+-----3-----+-----4

5	EMP-NUMBER	5/AN	00100
5	EMP-LAST-NAME	15/AN	MULSTROM
5	EMP-FIRST-NAME	10/AN	ROBERTA
5	EMP-MID-INIT	1/AN	A
5	FILLER	2/AN	
5	EMP-TITLE	30/AN	HOLLYWOOD SEAMSTRESS
5	EMP-PERSONAL-INFO SYNC	23/GRP	
10	EMP-NATL-ID-NUMBER	9/NUM	346573656
10	FILLER	1/AN	
10	EMP-DATE-OF-BIRTH	6/AN	090859
10	EMP-HIRE-DATE	6/AN	920111
10	EMP-MARITAL-STATUS	1/AN	S
5	EMP-WITHOLD-INFO SYNC	15/GRP	
10	EMP-LIFE-INS-WITHOLD-AMT	DISPLAY	80000{
		6/SNUM	8000.00
10	EMP-NATL-TAX-WITHOLD-PCT	3/PS	55.00
10	EMP-REGION-TAX-WITHOLD-PCT	3/PS	5.00
10	EMP-LOCAL-TAX-WITHOLD-PCT	3/PS	17.00
5	EMP-HOME-ADDRESS SYNC	50/GRP	
10	EMP-STREET-ADDRESS	25/AN	4701 N. BASCOM AVE. #430
10	FILLER	1/AN	
10	EMP-CITY	15/AN	ANAHEIM
10	EMP-STATE-PROV-CNTY SYNC	4/GRP	
15	EMP-STATE	2/AN	CA
15	FILLER	2/AN	
10	EMP-POSTAL-CODE	5/NUM	95126
5	EMP-EMERGENCY-CONTACT SYNC	47/GRP	
10	EMP-CONTACT-NAME	25/AN	GEORGE
10	FILLER	2/AN	
10	EMP-CON-WORK-PHONE	10/AN	2155552010
10	EMP-CON-HOME-PHONE	10/AN	2155559021

Ausgabe Druck Datei – vertikal formatiert (show format)

VP001-DATA TRUNCATION OCCURRED WHILE PROCESSING YOUR VPRINT REQUEST

08 JAN 2004 File-AID 8.9.0 PRINT FACILITY 14:58:22 PAGE 1

FILE PRINTED FILE CONTENTS REPORT
TYPE USERID9.FASAMP.EMPLOYEE
VSAM KSDS

EMP-NUMBER	EMP-LAST-NAME	EMP-FIRST-NAME	EMP-MID-INIT	FILLER	EMP-TITLE	EMP-PERSONAL-INFO
(1-5)	(6-20)	(21-30)	(31-31)	(32-33)	(34-63)	(64-86)
5/AN	15/AN	10/AN	1/AN	2/AN	30/AN	23/GRP
1-----	2-----	3-----	4-----	5-----	6-----	7-----
00090	MARTIN	EDWARD	M		AIRPLANE MANUFACTURER	427890125 101954920101M
00100	MULSTROM	ROBERTA	A		HOLLYWOOD SEAMSTRESS	346573656 090859920111S
00200	JACKSON	JOSEPH	C		ORATOR	275587177 020462920121S
10000	ANDREWS	GEORGE			ACTOR	576312032 042248920131S
15000	MURPHY	RONALD	L		PAINTER	987654321 120255920201S
18034	SCHNEIDER	ELLEN	C		NURSE	341559549 032960920211S
21035	JONES	GEORGE	B		COUNTRY SINGER	463813456 090944920221S
25100	ROBERTS	WILLIAM	R		POLITICIAN	879563325 050865920301S
27007	ALLEN	JOYCE	M		AUTHOR	783458334 012132920311S
30001	RICHARDS	REX	W		RODED CLOWN	632764534 040140920321S
31000	SAVAGE	JONATHON	C		ELECTRICIAN	348567992 06225092
34010	SMITH	JANET			AIRLINE ATTENDANT	557782984 11235992
34011	JACOBS	DIANA			DOCTOR	225368395 02175792
36010	SIMPSON	ALEX			CARTOONIST	123456789 070864920501S
39310	BARNETT	EDWARD	E		SALESMAN	543789142 080954920511S
39500	WILLIAMS	EDITH	A		DESIGNER	987654321 091860920521S
41000	RICHARDSON	MARJORIE	M		PROGRAMMER ANALYST	346583656 021355920601S
41400	MOORE	THOMAS	M		SYSTEMS ADMINISTRATOR	226373646 111139920611S
42017	BENNETT	WILLIAM	D		SALES SUPPORT	146573556 123048920621S
44018	WILHELM	HEINRICH	L		DIPLOMAT	466573356 091360920701S
50021	SORENTO	ROBERTA	A		U.N. INTERPRETER	346573656 081461920711S
51019	MCDONALD	EDNA			FARM MANAGER	567843656 071562920721S
54120	HENDERSON	JERRY	S		OUTDOORSMAN	473995305 012057920801S
57503	RUSSEL	PETE	L		GARDENER	873256305 021752920811S
60000	MCGEORGE	ELIZABETH			BARONNESS	346063046 070452920821M
63660	ELLIOT	ARNOLD	F		SONGWRITER	271233356 030354920901S
65111	BARNETT	JUDITH	C		AUTHOR	873283455 041544920911S
68973	NIELSON	ALLAN	H		TV SPOKESPERSON	304788155 062734920921S
72814	RUSK	JOHNATHON	M		ELECTRICAL ENGINEER	873256305 111264921001S
78781	GOLDMAN	ALBERT	J		BROKER	678898906 070350921011M
78782	JOHNSON	ALLAN	R		ACTOR	678898906 071359921021M
80000	STRANDEL	HARRY			LYRICIST	346573656 102464921101S
81032	MORAGA	BETTY JO			BASEBALL ANNOUNCER	704722155 091443921111S
...						

Ausgabe Druck Datei – vertikal formatiert (show picture)

```

VPO01-DATA TRUNCATION OCCURRED WHILE PROCESSING YOUR VPRINT REQUEST

08 JAN 2004                File-AID 8.9.0 PRINT FACILITY    16:01:27  PAGE    1

FILE PRINTED                FILE CONTENTS REPORT
TYPE                          USERID9.FASAMP.EMPLOYEE
                              VSAM KSDS
EMP-NUMBER EMP-LAST-NAME  EMP-FIRST-NAME EMP-MID-INIT FILLER  EMP-TITLE                EMP-PERSONAL-INFO
X(5)        X(15)        X(10)         X          XX       X(30)                    GROUP
(1-5)      (6-20)      (21-30)      (31-31)   (32-33) (34-63)                  (64-86)
1-----2-----3-----4-----5-----6-----7-----
00090      MARTIN        EDWARD        M          M          AIRPLANE MANUFACTURER   427890125 101954920101M
00100      MULSTROM      ROBERTA       A          A          HOLLYWOOD SEAMSTRESS   346573656 090859920111S
00200      JACKSON       JOSEPH        C          C          ORATOR                  275587177 020462920121S
10000      ANDREWS       GEORGE        M          M          ACTOR                   576312032 042248920131S
15000      MURPHY        RONALD        L          L          PAINTER                 987654321 120255920201S
18034      SCHNEIDER     ELLEN         C          C          NURSE                   341559549 032960920211S
21035      JONES         GEORGE        B          B          COUNTRY SINGER         463813456 090944920221S
25100      ROBERTS       WILLIAM       R          R          POLITICIAN             879563325 050865920301S
27007      ALLEN         JOYCE        M          M          AUTHOR                  783458334 012132920311S
30001      RICHARDS      REX           W          W          RODEO CLOWN            632764534 040140920321S
31000      SAVAGE        JONATHON     C          C          ELECTRICIAN            348567992 06225092
34010      SMITH         JANET        M          M          AIRLINE ATTENDANT     557782984 11235992
34011      JACOBS       DIANA        M          M          DOCTOR                 225368395 02175792
36010      SIMPSON      ALEX         M          M          CARTOONIST            123456789 070864920501S
39310      BARNETT      EDWARD       E          E          SALESMAN              543789142 080954920511S
39500      WILLIAMS     EDITH        A          A          DESIGNER              987654321 091860920521S
41000      RICHARDSON  MARJORIE    M          M          PROGRAMMER ANALYST    346583656 021355920601S
41400      MOORE        THOMAS      M          M          SYSTEMS ADMINISTRATOR 226373646 111139920611S
42017      BENNETT     WILLIAM     D          D          SALES SUPPORT         146573556 123048920621S
44018      WILHELM     HEINRICH    L          L          DIPLOMAT              466573356 091360920701S
50021      SORENTO     ROBERTA     A          A          U.N. INTERPRETER     346573656 081461920711S
51019      MCDONALD    EDNA        M          M          FARM MANAGER         567843656 071562920721S
54120      HENDERSON   JERRY       S          S          OUTDOORSMAN          473995305 012057920801S
57503      RUSSEL      PETE        L          L          GARDENER              873256305 021752920811S
60000      MCGEORGE    ELIZABETH   F          F          BARONNESS            346063046 070452920821M
63660      ELLIOT      ARNOLD      F          F          SONGWRITER           271233356 030354920901S
65111      BARNETT     JUDITH      C          C          AUTHOR               873283455 041544920911S
68973      NIELSON     ALLAN       H          H          TV SPOKESPERSON      304788155 062734920921S
72814      RUSK        JOHNATHON  M          M          ELECTRICAL ENGINEER  873256305 111264921001S
78781      GOLDMAN     ALBERT      J          J          BROKER               678898906 070350921011M
78782      JOHNSON    ALLAN       R          R          ACTOR                678898906 071359921021M
80000      STRANDEL   HARRY      M          M          LYRICIST             346573656 102464921101S
81032      MORAGA     BETTY JO    M          M          BASEBALL ANNOUNCER   704722155 091443921111S
...
    
```


Ausgabe Druck Datei – character Format

```
F I L E - A I D  V8.9.0  0 8 - J A N - 0 4   15.23.11  DD01=USERID9.FASAMP.EMPLOYEE   PAGE 1

RECRD      1 DATA  198 CHAR  00090MARTIN          EDWARD      M  AIRPLANE MANUFACT
RBA         0          1...5...10...15...20...25...30...35...40...45...50
          CHAR URER          427890125 101954920101M30000} & &
          51...55...60...65...70...75...80...85...90...95.....
          CHAR  859 0*FARREL ST.          SAN FRANCISCO CA 1212
          101...5...10...15...20...25...30...35...40...45...50
          CHAR 1BILL JONES          40855558974155556981
          151...55...60...65...70...75...80...85...90...95...

RECRD      2 DATA  198 CHAR  00100MULSTROM          ROBERTA      A  HOLLYWOOD SEAMSTR
RBA         198          1...5...10...15...20...25...30...35...40...45...50
          CHAR ESS          346573656 090859920111S80000{ & &
          51...55...60...65...70...75...80...85...90...95.....
          CHAR  4701 N. BASCOM AVE. #430 ANAHEIM          CA 9512
          101...5...10...15...20...25...30...35...40...45...50
          CHAR 6GEORGE          21555520102155559021
          151...55...60...65...70...75...80...85...90...95...

RECRD      3 DATA  198 CHAR  00200JACKSON          JOSEPH      C  ORATOR
RBA         396          1...5...10...15...20...25...30...35...40...45...50
          CHAR          275587177 020462920121S00000{ &
          51...55...60...65...70...75...80...85...90...95.....
          CHAR  1401 S. BASCOM AVE.          CANOGA PARK CA 9410
          101...5...10...15...20...25...30...35...40...45...50
          CHAR 6ANGELA          21255520102125559021
          151...55...60...65...70...75...80...85...90...95...

RECRD      4 DATA  198 CHAR  10000ANDREWS          GEORGE      ACTOR
RBA         594          1...5...10...15...20...25...30...35...40...45...50
          CHAR          576312032 042248920131S00000{ & &
          51...55...60...65...70...75...80...85...90...95.....
          CHAR  375 MERRIVALE W. SQ.          SUNNYVALE CA 9413
          101...5...10...15...20...25...30...35...40...45...50
          CHAR 4DICK          40455520104045559021
          151...55...60...65...70...75...80...85...90...95...
```


Ausgabe Druck Datei – formatiert – JCL

```
//JS10      EXEC PGM=FILEAID,REGION=4M
//STEPLIB   DD    DISP=SHR,DSN=FA.V8R9M0.LOAD
//SYSPRINT  DD    SYSOUT=*
//SYSLIST   DD    SYSOUT=*
//DD01      DD    DSN=USERID9.FASAMP.EMPLOYEE,
//           DD    DISP=SHR
//DD01RL    DD    DSN=USERID9.FASAMP.LAYOUTS,
//           DD    DISP=SHR
//SYSIN     DD    *
$$DD01     FPRINT SHOW=F,LAYOUT=EMPLOYEE,OUT=0
/*
//
```

Ausgabe Druck Datei – vertikal formatiert – JCL

```
//JS10      EXEC PGM=FILEAID,REGION=4M
//STEPLIB   DD   DISP=SHR,DSN=FA.V8R9M0.LOAD
//SYSPRINT  DD   SYSOUT=*
//SYSLIST   DD   SYSOUT=*
//DD01      DD   DSN=USERID9.FASAMP.EMPLOYEE,
//           DD   DISP=SHR
//DD01RL    DD   DSN=USERID9.FASAMP.LAYOUTS,
//           DD   DISP=SHR
//SYSIN     DD   *
$$DD01 VPRINT SHOW=F,LAYOUT=EMPLOYEE,OUT=0
/*
//
```

Ausgabe Druck Datei – character Format – JCL

```
//JS10      EXEC PGM=FILEAID,REGION=4M
//STEPLIB   DD   DISP=SHR,DSN=FA.V8R9M0.LOAD
//SYSPRINT  DD   SYSOUT=*
//SYSLIST   DD   SYSOUT=*
//DD01      DD   DSN=USERID9.FASAMP.EMPLOYEE,
//          DD   DISP=SHR
//SYSIN     DD   *
$$DD01 PRINT FORM=LONG,OUT=0
/*
//
```

Ausgabe Druck Datei – hexadezimales Format – JCL

```
//JS10      EXEC PGM=FILEAID,REGION=4M
//STEPLIB   DD  DISP=SHR,DSN=FA.V8R9M0.LOAD
//SYSPRINT  DD  SYSOUT=*
//SYSLIST   DD  SYSOUT=*
//DD01      DD  DSN=USERID9.FASAMP.EMPLOYEE,
//          DD  DISP=SHR
//SYSIN     DD  *
$$DD01 DUMP  FORM=LONG,OUT=0
/*
//
```

Ausgabe XREF-Datei

```
File-AID ----- Print Record Layout XREF -----  
COMMAND ==>  
  
Specify Print Information:  
  Print option ==> PL      (P = Print record layout XREF;  
                           PL = Print XREF with referenced record layouts)  
  
Specify XREF and Record Layout Information:  
  XREF dataset name ==> FASAMP.XREF  
  Member name ==> ORDRFILE (Blank = member list; * = all members)  
  
  Record layout dataset ==> FASAMP.LAYOUTS  
  
Specify Batch JCL Information:  
  Sysout class ==> *  
  
Specify JOB Statement Information:  
==> //USERID9 JOB ('OFAQC8.9',81),'AUDIT',  
==> // CLASS=P,NOTIFY=USERID9,MSGCLASS=R  
==>  
==>  
  
Use JCL command to edit generated JCL  
Use SUBMIT command to submit batch job  
Use END to return to main print panel without submitting job
```

Ausgabe XREF-Datei – Ergebnis Teil 1

08 JAN 2004 File-AID 8.9 PRINT FACILITY 13:04:42 PAGE 1
RECORD LAYOUT/XREF REPORT

XREF Dataset: USERID9.FASAMP.XREF
Member: ORDRFILE
Description: XREF FOR ORDRFILE_____
RECORD TYPE FIELD IS ORDER-TYPE. FOR ORDERWO THE FIELD_____
CONTRACT INDICATOR IS USED TO SELECT FROM TWO TYPES OF LAYOUT_

Record Layout Dataset: USERID9.FASAMP.LAYOUTS

Member		Starting Data-name/Line number	Position	Length	R0	Field Values	Format/ Description	Status
ORDERPO		ORDER-LINE-DATA-PO					PO LINE DATA	BASE
ORDERSC	IF	ORDER-TYPE	11	2	= PO		CHAR	
		ORDER-LINE-DATA-SC					SC LINE DATA__	BASE
ORDERWO	IF	ORDER-TYPE	11	2	= SC		CHAR	
		OUTSIDE-VENDOR-WORK-ORDER					WORK ORDER - OV	BASE
	IF	ORDER-TYPE	11	2	= WO		CHAR	
	AND	CONTRACT-INDICATOR	56	2	= OV		CHAR	
ORDERWO		INTERNAL-WORK-ORDER					WORK ORDER - IN	DEFAULT

*** END OF REPORT ***

Ausgabe XREF-Datei – Ergebnis Teil 2

08 JAN 2004 File-AID 8.9 PRINT FACILITY 13:03:16 PAGE 2
ASSOCIATED LAYOUT REPORT

RECORD LAYOUT DATASET : USERID9.FASAMP.LAYOUTS
MEMBER : ORDERPO

-----	FIELD LEVEL/NAME	-----	--PICTURE--	FLD	START	END	LENGTH
	ORDER-LINE-DATA-PO				1	184	184
5	RECORD-LENGTH		S9(4)	1	1	2	2
5	ORDER-NO		X(6)	2	3	8	6
5	ORDER-LINE-KEY		GROUP	3	9	10	2
7	LINE-NUMBER		XX	4	9	10	2
5	ORDER-TYPE		XX	5	11	12	2
5	LINE-STATUS		X(7)	6	13	19	7
5	PART-NO		X(6)	7	20	25	6
5	DESCRIPTION		X(30)	8	26	55	30
5	UNIT-OF-MEASURE		XX	9	56	57	2
5	PURCHASE-ORDER-INFO		GROUP	10	58	113	56
7	PO-CODE		X(4)	11	58	61	4
7	PO-NUMBER		X(12)	12	62	73	12
7	PO-COMPANY		X(30)	13	74	103	30
7	PO-VENDOR-NUMBER		X(5)	14	104	108	5
7	PO-VENDOR-CODE		X(5)	15	109	113	5
5	FILLER		X(30)	16	114	143	30
5	ORDER-QUANTITIES		GROUP	17	144	152	9
7	QTY-ORDERED		S9(5)	18	144	146	3
7	QTY-BACKORDERED		S9(5)	19	147	149	3
7	QTY-SHIPPED		S9(5)	20	150	152	3
5	PURCHASE-ORDER-PRICE-INFO		GROUP	21	153	164	12
7	LIST-PRICE		S9(5)V99	22	153	156	4
7	DISCOUNT-AMOUNT		S9(5)V99	23	157	160	4
7	NET-PRICE		S9(5)V99	24	161	164	4
5	PROCUREMENT-CODE		XX	25	165	166	2
5	BUYER-CODE		XX	26	167	168	2
5	FIRST-ACTIVITY-DATE		X(8)	27	169	176	8
5	LAST-ACTIVITY-DATE		X(8)	28	177	184	8

Ausgabe XREF-Datei – Aufruf als Batch – Option P

```
//JS10          EXEC   PGM=FILEAID,REGION=4M
//STEPLIB       DD    DISP=SHR,DSN=FA.V8R9M0.LOAD
//SYSPRINT      DD    SYSOUT=*
//SYSLIST       DD    SYSOUT=*
//DD01          DD    DSN=USERID9.FASAMP.XREF,
//              DD    DISP=SHR
//SYSIN         DD    *
$$DD01 XRPRINT MEMBER=ORDRXREF
/*
//
```

Ausgabe XREF-Datei – Aufruf als Batch – Option PL

```
//JS10          EXEC   PGM=FILEAID,REGION=4M
//STEPLIB       DD    DISP=SHR,DSN=FA.V8R9M0.LOAD
//SYSPRINT      DD    SYSOUT=*
//SYSLIST      DD    SYSOUT=*
//DD01         DD    DSN=USERID9.FASAMP.XREF,
//              DD    DISP=SHR
//DD01RL       DD    DSN=USERID9.FASAMP.LAYOUTS,
//              DD    DISP=SHR
//SYSIN        DD    *
$$DD01 XRPRINT RLPRINT=YES,MEMBER=(ORDRFILE)
/*
//
```

Ausgabe Selektionsdatei

```
File-AID ----- Print Selection Criteria -----  
COMMAND ==>  
  
Specify Selection Criteria Information:  
  Selection dataset name ==>'USERID9.FASAMP.SELCRIT'  
  Member name           ==>                (Blank = member list; * = all members)  
  
Specify Batch JCL Information:  
  Sysout class          ==> *  
  
Specify JOB Statement Information:  
==> //USERID9 JOB ('OFAQC8.9',81),'AUDIT',  
==> //   CLASS=P,NOTIFY=USERID9,MSGCLASS=R  
==>  
==>  
  
Use JCL command to edit generated JCL  
Use SUBMIT command to submit batch job  
Use END to return to main print panel without submitting job
```

Ausgabe Selektionsdatei – Ergebnis (Options)

08 JAN 2004 File-AID 8.9 PRINT FACILITY 10:48:55 PAGE 1

SELECTION CRITERIA REPORT

Selection Criteria Dataset Member Description	USERID9.FASAMP.SELCRIT EMPSELC
Record Layout Dataset Member	USERID9.FASAMP.LAYOUTS EMPLOYEE
Xref Dataset Member	NONE
Description	EMPLOYEE SELECT EXAMPLE SELECT SINGLE EMPLOYEES WITH LOCAL W/H LT 7 OR HOME PHONE IN AREA CODE 404 408 OR 415

Selection criteria options

No starting Key/RBA specified	
Initial Records to skip	0
Subsequent Selection Interval	
Records to select	1
Records to skip	0
Number of records to search	ALL
Number of records to select	ALL
SEQ/VSAM processing direction	FORWARD

Ausgabe Selektionsdatei – Ergebnis (Formate)

08 JAN 2004 File-AID 8.9 PRINT FACILITY 10:48:55 PAGE 2

Field Selection Criteria:

Data-name	Format	Start	Length	RO	Data Value	AND/OR
-----	-----	-----	-----	--	-----	-----
Selection Set 1						
EMP-MARITAL-STATUS	CHAR	86	1	=	S	AND
EMP-LOCAL-TAX-WITHOLD-PCT	NUM/PACK	99	3	<	+700	

Ausgabe Selektionsdatei – Aufruf als Batch

```
//JS10      EXEC PGM=FILEAID,REGION=4M //ST
//SYSPRINT DD  SYSOUT=*
//SYSLIST  DD  SYSOUT=*
//DD01     DD  DSN=USERID9.FASAMP.SELCRIT,
//          DD  DISP=SHR
//SYSIN    DD  *
$$DD01 SCPRINT MEMBER=(INVFILEC)
/*
//
```

Ausgabe Record Layout

```
File-AID ----- Print Record Layout -----
```

```
COMMAND ==>
```

```
Specify Record Layout Information:
```

```
Record layout dataset ==> FASAMP.LAYOUTS
```

```
Member ==> * (Blank = member list; * = all members)
```

```
Specify Batch JCL Information:
```

```
Sysout class ==> *
```

```
Specify JOB Statement Information:
```

```
==> //USERID9 JOB ('OFAQC8.9',81),'AUDIT',
```

```
==> // CLASS=P,NOTIFY=USERID9,MSGCLASS=R
```

```
==>
```

```
==>
```

```
Use JCL command to edit generated JCL
```

```
Use SUBMIT command to submit batch job
```

```
Use END to return to main print panel without submitting job
```


Ausgabe Record Layout – COBOL-Ausgangsstruktur

```
01  EMPLOYEE-MASTER-FILE.                                05  EMP-NUMBER
    05  EMP-LAST-NAME                                     PIC X(15).
    05  EMP-FIRST-NAME                                    PIC X(10).
    05  EMP-MID-INIT                                      PIC X.
    05  FILLER                                           PIC X(2).
    05  EMP-TITLE                                         PIC X(30).
    05  EMP-PERSONAL-INFO.
        10  EMP-NATL-ID-NUMBER                            PIC 9(9).
        10  FILLER                                        PIC X(01).
        10  EMP-DATE-OF-BIRTH                            PIC X(6).
        10  EMP-DOB-REDEF REDEFINES EMP-DATE-OF-BIRTH.
            15  EMP-DOB-MM                                PIC 99.
            15  EMP-DOB-DD                                PIC 99.
            15  EMP-DOB-YY                                PIC 99.
        10  EMP-HIRE-DATE                                  PIC X(6).
        10  EMP-MARITAL-STATUS                            PIC X.
    05  EMP-WITHOLD-INFO.
        10  EMP-LIFE-INS-WITHOLD-AMT                     PIC S9999V99.
        10  EMP-NATL-TAX-WITHOLD-PCT                     PIC S999V99  COMP-3.
        10  EMP-REGION-TAX-WITHOLD-PCT                   PIC S999V99  COMP-3.
        10  EMP-LOCAL-TAX-WITHOLD-PCT                   PIC S999V99  COMP-3.
    05  EMP-HOME-ADDRESS.
        10  EMP-STREET-ADDRESS                           PIC X(25).
        10  FILLER                                       PIC X(01).
        10  EMP-CITY                                     PIC X(15).
        10  EMP-STATE-PROV-CNTY.
            15  EMP-STATE                                 PIC XX.
            15  FILLER                                   PIC XX.
        10  EMP-POSTAL-CODE                              PIC 9(5).
    05  EMP-EMERGENCY-CONTACT.
        10  EMP-CONTACT-NAME                             PIC X(25).
        10  FILLER                                       PIC X(02).
        10  EMP-CON-WORK-PHONE                           PIC X(10).
        10  EMP-CON-HOME-PHONE                           PIC X(10).
```

Ausgabe Record Layout – COBOL-Ergebnis

08 JAN 2004 File-AID 8.9 PRINT FACILITY 16:34:10 PAGE 1
 RECORD LAYOUT REPORT

RECORD LAYOUT DATASET : USERID9.FASAMP.LAYOUTS
 MEMBER : EMPLOYEE

FIELD	START	END	LENGTH
EMPLOYEE-MASTER-FILE	1	198	198
5 EMP-NUMBER	1	5	5
5 EMP-LAST-NAME	6	20	15
5 EMP-FIRST-NAME	21	30	10
5 EMP-MID-INIT	31	31	1
5 FILLER	32	33	2
5 EMP-TITLE	34	63	30
5 EMP-PERSONAL-INFO	64	86	23
10 EMP-NATL-ID-NUMBER	64	72	9
10 FILLER	73	73	1
10 EMP-DATE-OF-BIRTH	74	79	6
10 EMP-DOB-REDEF REDEFINES EMP-DATE-OF-BIRTH			
10 EMP-DOB-REDEF	74	79	6
15 EMP-DOB-MM	74	75	2
15 EMP-DOB-DD	76	77	2
15 EMP-DOB-YY	78	79	2
10 EMP-HIRE-DATE	80	85	6
10 EMP-MARITAL-STATUS	86	86	1
5 EMP-WITHOLD-INFO	87	101	15
10 EMP-LIFE-INS-WITHOLD-AMT	87	92	6
10 EMP-NATL-TAX-WITHOLD-PCT	93	95	3
10 EMP-REGION-TAX-WITHOLD-PCT			
10 EMP-LOCAL-TAX-WITHOLD-PCT	96	98	3
5 EMP-HOME-ADDRESS	99	101	3
10 EMP-STREET-ADDRESS	102	151	50
10 FILLER	102	126	25
10 EMP-CITY	127	127	1
10 EMP-STATE-PROV-CNTY	128	142	15
15 EMP-STATE	143	146	4
15 FILLER	143	144	2
10 EMP-POSTAL-CODE	145	146	2
5 EMP-EMERGENCY-CONTACT	147	151	5
10 EMP-CONTACT-NAME	152	198	47
10 FILLER	152	176	25
10 EMP-CON-WORK-PHONE	177	178	2
10 EMP-CON-HOME-PHONE	179	188	10
	189	198	10

*** END OF LAYOUT REPORT ***

Ausgabe Record Layout – PL1-Ausgangsstruktur

```
DCL 1  EMPLOYEE_MASTER_FILE,
      5  EMP_NUMBER           CHAR(05),
      5  EMP_LAST_NAME        CHAR(15),
      5  EMP_FIRST_NAME       CHAR(10),
      5  EMP_MID_INIT         CHAR(01),
      5  FILLER               CHAR(02),
      5  EMP_TITLE            CHAR(30),
      5  EMP_PERSONAL_INFO,
          10  EMP_NATL_ID_NUMBER CHAR(09),
          10  FILLER           CHAR(01),
          10  EMP_DATE_OF_BIRTH CHAR(06),
          10  EMP_HIRE_DATE     CHAR(06),
          10  EMP_MARITAL_STATUS CHAR(01),
      5  EMP_WITHHOLD_INFO,
          10  EMP_LIFE_INS_WITHHOLD_AMT PIC '9999V99',
          10  EMP_NATL_TAX_WITHHOLD_PCT  FIXED DEC (5,2),
          10  EMP_REGION_TAX_WITHHOLD_PCT FIXED DEC (5,2),
          10  EMP_LOCAL_TAX_WITHHOLD_PCT  FIXED DEC (5,2),
      5  EMP_HOME_ADDRESS,
          10  EMP_STREET_ADDRESS CHAR(25),
          10  FILLER             CHAR(01),
          10  EMP_CITY           CHAR(15),
          10  EMP_STATE_PROV_CNTY,
              15  EMP_STATE      CHAR(02),
              15  FILLER        CHAR(02),
          10  EMP_POSTAL_CODE    CHAR(05),
      5  EMP_EMERGENCY_CONTACT,
          10  EMP_CONTACT_NAME   CHAR(25),
          10  FILLER             CHAR(02),
          10  EMP_CONT_WORK_PHONE CHAR(10),
          10  EMP_CONT_HOME_PHONE CHAR(10);
```

Ausgabe Record Layout – PL1-Ergebnis

08 JAN 2004 File-AID 8.9 PRINT FACILITY 15:38:57 PAGE 1
RECORD LAYOUT REPORT

RECORD LAYOUT DATASET : USERID9.FASAMP.LAYOUTS
MEMBER : PLIEMP

----- FIELD LEVEL/NAME -----	--PICTURE--	FLD	START	END	LENGTH
EMPLOYEE_MASTER_FILE			1	198	198
5 EMP_NUMBER	CHAR(5)	1	1	5	5
5 EMP_LAST_NAME	CHAR(15)	2	6	20	15
5 EMP_FIRST_NAME	CHAR(10)	3	21	30	10
5 EMP_MID_INIT	CHAR(1)	4	31	31	1
5 FILLER	CHAR(2)	5	32	33	2
5 EMP_TITLE	CHAR(30)	6	34	63	30
5 EMP_PERSONAL_INFO	GROUP	7	64	86	23
10 EMP_NATL_ID_NUMBER	CHAR(9)	8	64	72	9
10 FILLER	CHAR(1)	9	73	73	1
10 EMP_DATE_OF_BIRTH	CHAR(6)	10	74	79	6
10 EMP_HIRE_DATE	CHAR(6)	11	80	85	6
10 EMP_MARITAL_STATUS	CHAR(1)	12	86	86	1
5 EMP_WITHOLD_INFO	GROUP	13	87	101	15
10 EMP_LIFE_INS_WITHOLD_AMT	PFXU(6,2)	14	87	92	6
10 EMP_NATL_TAX_WITHOLD_PCT	DFX(5,2)	15	93	95	3
10 EMP_REGION_TAX_WITHOLD_PCT	DFX(5,2)	16	96	98	3
10 EMP_LOCAL_TAX_WITHOLD_PCT	DFX(5,2)	17	99	101	3
5 EMP_HOME_ADDRESS	GROUP	18	102	151	50
10 EMP_STREET_ADDRESS	CHAR(25)	19	102	126	25
10 FILLER	CHAR(1)	20	127	127	1
10 EMP_CITY	CHAR(15)	21	128	142	15
10 EMP_STATE_PROV_CNTY	GROUP	22	143	146	4
15 EMP_STATE	CHAR(2)	23	143	144	2
15 FILLER	CHAR(2)	24	145	146	2
10 EMP_POSTAL_CODE	CHAR(5)	25	147	151	5
5 EMP_EMERGENCY_CONTACT	GROUP	26	152	198	47
10 EMP_CONTACT_NAME	CHAR(25)	27	152	176	25
10 FILLER	CHAR(2)	28	177	178	2
10 EMP_CONT_WORK_PHONE	CHAR(10)	29	179	188	10
10 EMP_CONT_HOME_PHONE	CHAR(10)	30	189	198	10

*** END OF LAYOUT REPORT ***

Ausgabe Record Layout – Aufruf im Batch

```
//JS10      EXEC   PGM=FILEAID,REGION=4M
//STEPLIB   DD    DISP=SHR,DSN=FA.V8R9M0.LOAD
//SYSPRINT  DD    SYSOUT=*
//SYSLIST   DD    SYSOUT=*
//DD01      DD    DSN=USERID9.FASAMP.LAYOUTS,
//          DD    DISP=SHR
//SYSIN     DD    *
$$DD01  RLPRINT MEMBER=EMPLOYEE
/*
//
```

Ausgabe Audit Trail

```
File-AID ----- Print Audit Trail -----  
COMMAND ==>  
  
Specify Audit Trail Information:  
  Audit trail disposition ==>          (PK = Print dataset and keep;  
                                       PD = Print dataset and delete)  
  
  Audit trail dataset      ==> 'USERID9.FILEAID.AUDT.D940708.T104700'  
  
Specify Batch JCL Information:  
  Sysout class            ==> *  
  
Specify JOB Statement Information:  
==> //USERID9 JOB ('OFAQC8.9',81),'AUDIT',  
==> //   CLASS=P,NOTIFY=USERID9,MSGCLASS=R  
==>  
==>  
  
Use JCL command to edit generated JCL  
Use ENTER to submit batch job  
Use END to return to main print panel without submitting job
```

Ausgabe Audit Trail – Ausgabe

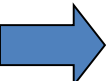
```
08 JAN 2004 15:35:56                               File-AID 8.9 AUDIT TRAIL REPORT                               PAGE: 1
DATA FILE: SAMPLE1.EMPLOYEE.FILE                   OPENED ON: 08 JAN 2004 AT 14:39:01 USER ID: USERID9

UPDATE NUMBER: 1                                     ACTION: CHANGE                                     RECORDED: 08 JAN 2004 AT 14:40:25
GROUP NAME: EMPLOYEE-MASTER-FILE                   BEFORE RECORD LENGTH: 63                         AFTER RECORD LENGTH: 63
---- FIELD LEVEL/NAME ----- -FORMAT- ----- BEFORE FIELD VALUE ----- AFTER FIELD VALUE ----- --MESSAGE
5 EMP-NUMBER 5/AN 00100
5 EMP-LAST-NAME 15/AN MULSTROM einstein
5 EMP-FIRST-NAME 10/AN ROBERTA alfred
5 EMP-MID-INIT 1/AN A
5 FILLER 2/AN
5 EMP-TITLE 30/AN HOLLYWOOD SEAMSTRESS
-----
END OF LAYOUT -----

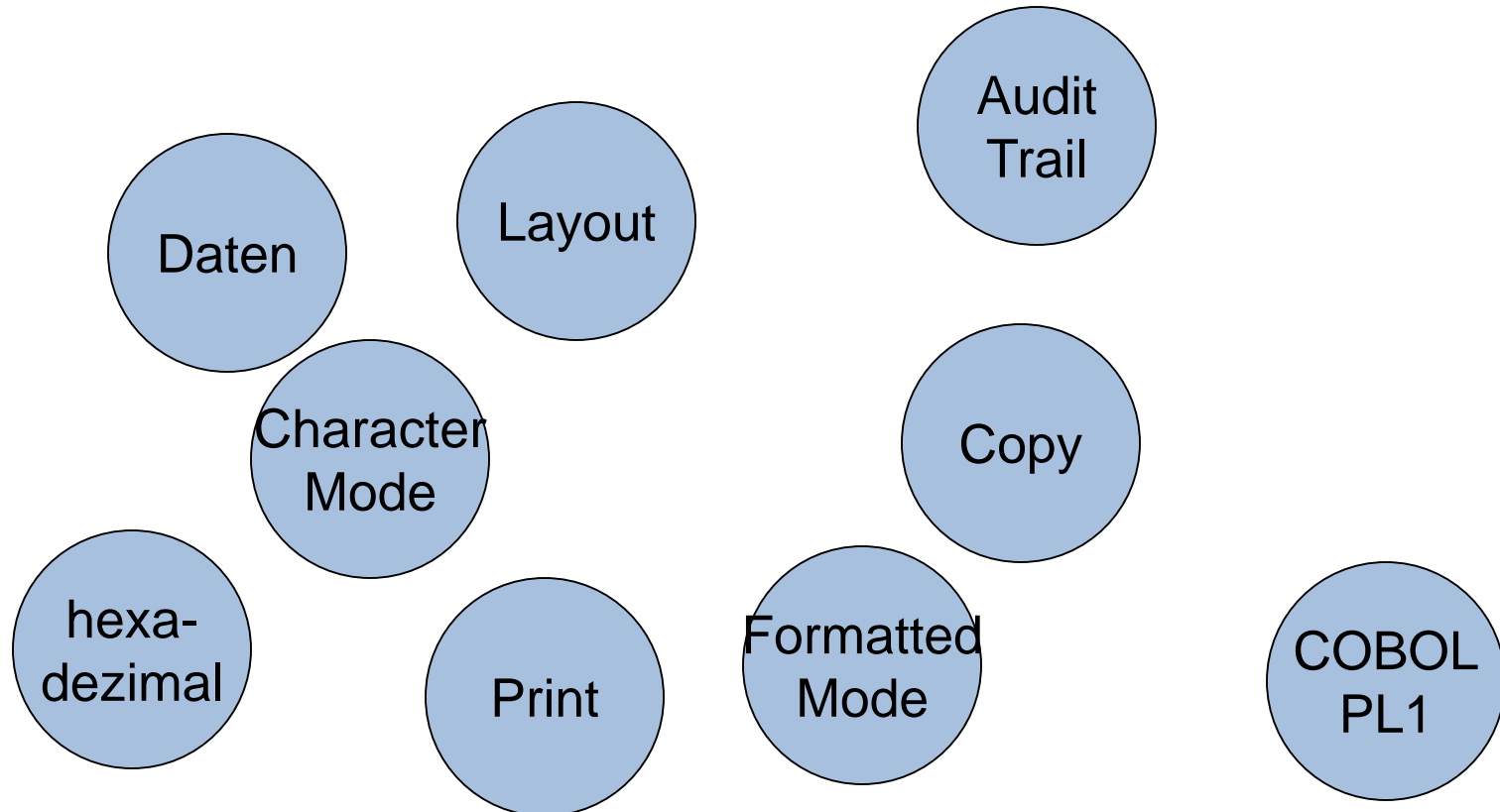
UPDATE NUMBER: 2                                     ACTION: INSERT                                     RECORDED: 08 JAN 2004 AT 14:40:25
GROUP NAME: EMPLOYEE-MASTER-FILE                   BEFORE RECORD LENGTH:                             AFTER RECORD LENGTH: 63
---- FIELD LEVEL/NAME ----- -FORMAT- ----- BEFORE FIELD VALUE ----- AFTER FIELD VALUE ----- --MESSAGE
5 EMP-NUMBER 5/AN 99999
5 EMP-LAST-NAME 15/AN KOWALSKI
5 EMP-FIRST-NAME 10/AN KENDRA
5 EMP-MID-INIT 1/AN M
5 FILLER 2/AN
5 EMP-TITLE 30/AN DATA ENTRY
-----
END OF LAYOUT -----

UPDATE NUMBER: 3                                     ACTION: DELETE                                     RECORDED: 08 JAN 2004 AT 14:40:25
GROUP NAME: EMPLOYEE-MASTER-FILE                   BEFORE RECORD LENGTH: 63                         AFTER RECORD LENGTH:
---- FIELD LEVEL/NAME ----- -FORMAT- ----- BEFORE FIELD VALUE ----- AFTER FIELD VALUE ----- --MESSAGE
5 EMP-NUMBER 5/AN 00090
5 EMP-LAST-NAME 15/AN MARTIN
5 EMP-FIRST-NAME 10/AN EDWARD
5 EMP-MID-INIT 1/AN M
5 FILLER 2/AN
5 EMP-TITLE 30/AN AIRPLANE MANUFACTURERxxxxxxxxx
-----
END OF LAYOUT -----

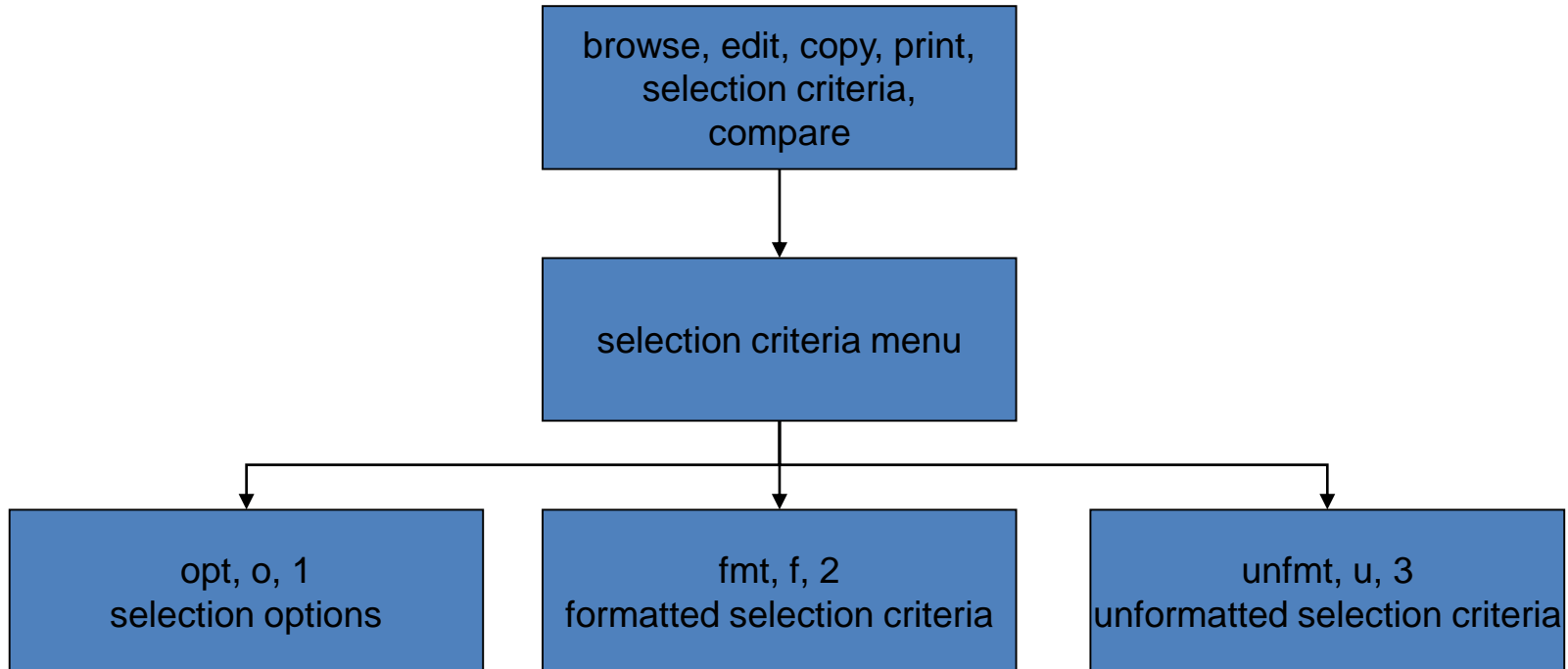
***** -> END OF REPORT <- *****
```

-
- Einführung
 - Einstieg und Überblick
 - Optionen
 - Browse und Edit
 - Utilities
 - Print
 -  • Selektionskriterien
 - XREF-Datei
 - View Record Layout / Reformat
 - Compare

Begriffe



Dataset Specification



Definition Dataset

```
File-AID ----- Selection Criteria - Dataset Specification -----  
COMMAND ===>
```

```
Specify Selection Criteria Member to be Created or Edited:
```

```
Selection dataset name ===> FASAMP.SELECT  
Member name           ===>           (Blank or pattern for member list)
```

```
Specify Record Layout and XREF Information:
```

```
Record layout usage   ===> S           (S = Single; X = XREF; N = None)
```

```
Record layout dataset ===> FASAMP.LAYOUTS  
Member name           ===>           (Blank or pattern for member list)
```

```
XREF dataset name     ===>  
Member name           ===>           (Blank or pattern for member list)
```

```
-----  
This function creates and maintains existing File-AID selection criteria. You  
can then apply these criteria in other functions (BROWSE, EDIT, COPY, COMPARE,  
and PRINT).
```

```
Specify either a record layout dataset and/or an XREF dataset when creating or  
maintaining formatted selection criteria.
```

Auswahl Member

```
File-AID - SELCRIT Select - USERID9.FASAMP.SELCRIT ----- ROW 1 TO 9 OF 9
COMMAND ---->                                     SCROLL ----> CSR
S  NAME      DESCRIPTION                                TYPE      CHANGED    ID
EMPSELC     EMPLOYEE SELECT EXAMPLE                          SELC     94/08/31 20:34  USERID9
EMPSELP     EMPLOYEE SELECT EXAMPLE - PL/I                   SELC     94/08/31 20:34  USERID9
INVFILEC    INVFILE SELECTION - COBOL_____                 SELC     94/07/06 20:42  USERID9
INVFILEP    INVFILE SELECTION - PL/I                         SELC     94/07/06 20:42  USERID9
ORDRFILC    SELECT PO ORDER-LINE_____                     SELC     94/12/24 21:19  USERID9
ORDRFILP    SELECT PO ORDERS - PL/I_____                   SELC     94/07/11 11:53  USERID9
*****
***** BOTTOM OF DATA *****
```

Definition der Kriterien

```
File-AID - Selection Criteria Menu - USERID9.FASAMP.SELECT -----  
OPTION ===>
```

		- Status -
1	OPTIONS - Enter selection criteria options	default
2	FORMATTED - Edit formatted selection criteria	0 sets
3	UNFORMATTED - Edit unformatted selection criteria	0 sets

```
Member list description ===> _____
```

```
Long      ===> _____  
Description ===> _____
```

```
Use VIEW to display selection criteria summary  
Use SAVE to write selection criteria request  
Use END to save selection criteria & return to dataset specification  
Use CANCEL to cancel changes & return to dataset specification
```

Definition der Optionen

```
File-AID ----- Selection Criteria Options -----  
COMMAND ==>  
  
Specify Selection Criteria Options:  
  
Starting record key      ==>          Start at the following record key  
- OR -                  (both blank for start of dataset)  
Starting RBA or RRN     ==>          OR at the following RBA or RRN  
  
Initial records to skip ==> 0       then skip this many records  
  
Subsequent Selection Interval:  
  Records to select     ==> 1       - select this many records  
  Records to skip       ==> 0       - then skip this many records  
                               until  
Number of records to search ==> ALL  you have read this many records  
Number of records to select ==> ALL  or selected this many records  
  
SEQ/VSAM processing direction ==> F  (F = Forward; B = Backward)  
  
Use END key to return to selection criteria menu
```

Definition der Optionen – Beispiel

Initial records to skip	===> 4	then skip this many records
Subsequent Selection Interval:		then repeat the following
Records to select	===> 2	- select this many records
Records to skip	===> 3	- then skip this many records
		until
Number of records to search	===> ALL	you have read this many records
Number of records to select	===> 10	or selected this many records

Definition der Optionen – Beispiel – Ergebnis

Selected/Not Selected		Records	in the file
NS		Record	1
NS			2
NS			3
NS			4
S		Select 2	5 <=== Starting Record Number
S			6
NS		Skip 3	7
NS			8
NS			9
S		Select 2	10
S			11
NS		Skip 3	12
NS			13
NS			14
S		Select 2	15
S			16
NS		Skip 3	17
NS			18
NS			19
S		Select 2	20
S			21
NS		Skip 3	22
NS			23
NS			24
S		Select 2	25
S			26 <=== 10th Record Selected
NS			27
NS			28
NS			29
NS	Not Selected		30
NS	Because Limit		31
NS	Has Been Reached		32
NS			33
NS			34
NS			35

Definition der Optionen – Default

```
Initial records to skip      ==> 0      then skip this many records
Subsequent Selection Interval
  Records to select          ==> 1      - select this many records
  Records to skip           ==> 0      - then skip this many records
                                until
Number of records to search ==> all    you have read this many records
Number of records to select ==> all    or selected this many records
```

... damit wird alles bearbeitet ...

formatierte Angabe

```
File-AID --- Formatted Selection Criteria -----
COMMAND ===>                                SCROLL ===> CSR
CRITERIA NUMBER: 1 OF 1 EMPLOYEE-MASTER-FILE          LAYOUT LENGTH: 198
---- FIELD LEVEL/NAME ----- -FORMAT- RO -----1-----2-----3-----+
***** TOP OF DATA *****
5 EMP-NUMBER                5/AN
5 EMP-LAST-NAME            15/AN
5 EMP-FIRST-NAME           10/AN
5 EMP-MID-INIT              1/AN
5 FILLER                    2/AN
5 EMP-TITLE                 30/AN
5 EMP-PERSONAL-INFO SYNC    23/GRP
10 EMP-NATL-ID-NUMBER       9/NUM
10 FILLER                    1/AN
10 EMP-DATE-OF-BIRTH        6/AN
10 EMP-DOB-REDEF REDEFINES EMP-DATE-OF-BIRTH
10 EMP-DOB-REDEF SYNC       6/GRP
   15 EMP-DOB-MM             2/NUM
   15 EMP-DOB-DD             2/NUM
   15 EMP-DOB-YY            2/NUM
10 EMP-HIRE-DATE            6/AN
10 EMP-MARITAL-STATUS       1/AN
5 EMP-WITHOLD-INFO SYNC     15/GRP
10 EMP-LIFE-INS-WITHOLD-AMT 6/SNUM
```

formatierte Angabe – gültige Operatoren

EQ, =	Equal to
NE, ≠, !=	Not equal to
GT, >	Greater than
GE, >=	Greater than or equal to
LT, <	Less than
LE, <=	Less than or equal to
CO	Contains; scans the specified field for the presence of a data value. CO works on an equal condition.
NC	Not contains; scans the specified field for the absence of a data value. NC works on a not equal condition.
BT	Between; within a range of two values (endpoints inclusive). The value is greater than or equal to the first endpoint and less than or equal to the last endpoint.
NB	Not between; outside a range of two values (endpoints exclusive). The value is less than the first endpoint or greater than the last endpoint.
VA	Valid numeric or packed data based on the field format.
NV	Not valid numeric or packed data based on the field format.

formatierte Angabe – Operator FM (field mask)

```
File-AID --- Formatted Selection Criteria -----  
C          Field Mask Criteria  
S  
- Command ==>  
*  
1  Field Name   : ORD-TYPE  
   Data Type    : CHARACTER  
   Field Length : 00008  
   Mask Length  : 008  
  
   A field mask allows selected positions of a field to be processed.  
   It always operates on the character representation of the field.  
  
   Identify field positions to process: (Y = include; N = exclude)  
   Field Mask:  ----+---  
  
*  END to continue
```

formatierte Angabe – Beispiele

```
File-AID --- Formatted Selection Criteria -----
COMMAND ==>                                     SCROLL ==> CSR
CRITERIA NUMBER: 1 OF 2 EXAMPLE-FILE             LAYOUT LENGTH: 3
---- FIELD LEVEL/NAME ----- -FORMAT- RO ----+----1----+----2----+----3----+
***** TOP OF DATA *****
5 FIELD-ONE                1/AN   =  A,B,C
5 FIELD-TWO                1/AN   =  D
5 FIELD-THREE              1/AN
***** BOTTOM OF DATA *****
```

```
File-AID --- Formatted Selection Criteria -----
COMMAND ==>                                     SCROLL ==> CSR
CRITERIA NUMBER: 2 OF 2 EXAMPLE-FILE             LAYOUT LENGTH: 3
---- FIELD LEVEL/NAME ----- -FORMAT- RO ----+----1----+----2----+----3----+
***** TOP OF DATA *****
5 FIELD-ONE                1/AN
5 FIELD-TWO                1/AN
5 FIELD-THREE              1/AN   =  E
***** BOTTOM OF DATA *****
```

unformatierte Angabe – Beispiele

```
File-AID ----- Unformatted Selection Criteria --- ROW 1 TO 16 OF 25  
COMMAND ==>                                     SCROLL ==> CSR
```

Use END to continue, CANCEL to return to main screen.

Cmd	/OR	Position	Length	RO	Data Value
---		1			EQ T'a,b,c'
---	AND	2			EQ T'd'
---	OR	3			EQ T'e'
---	AND	---	---		EQ _____
---	AND	---	---		EQ _____

segmentierte Daten / multi-record-dataset

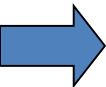
```
File-AID --- Display XREF - SEGFILE ----- ROW 1 TO 6 OF 6
COMMAND ==>                                SCROLL ==> CSR
XR113- Selection by Record ID: Enter S or SF for formatted, SU for unformatted
Member list description ==> SEGFILE XREF_____

      Long      ==> FILE CONTAINS INS-BASE FOLLOWED BY ANY NUMBER OF ADDITIONAL___
Description ==> TRAILER SEGMENTS IN ANY ORDER - BOAT CAR BUSINESS ETC._____

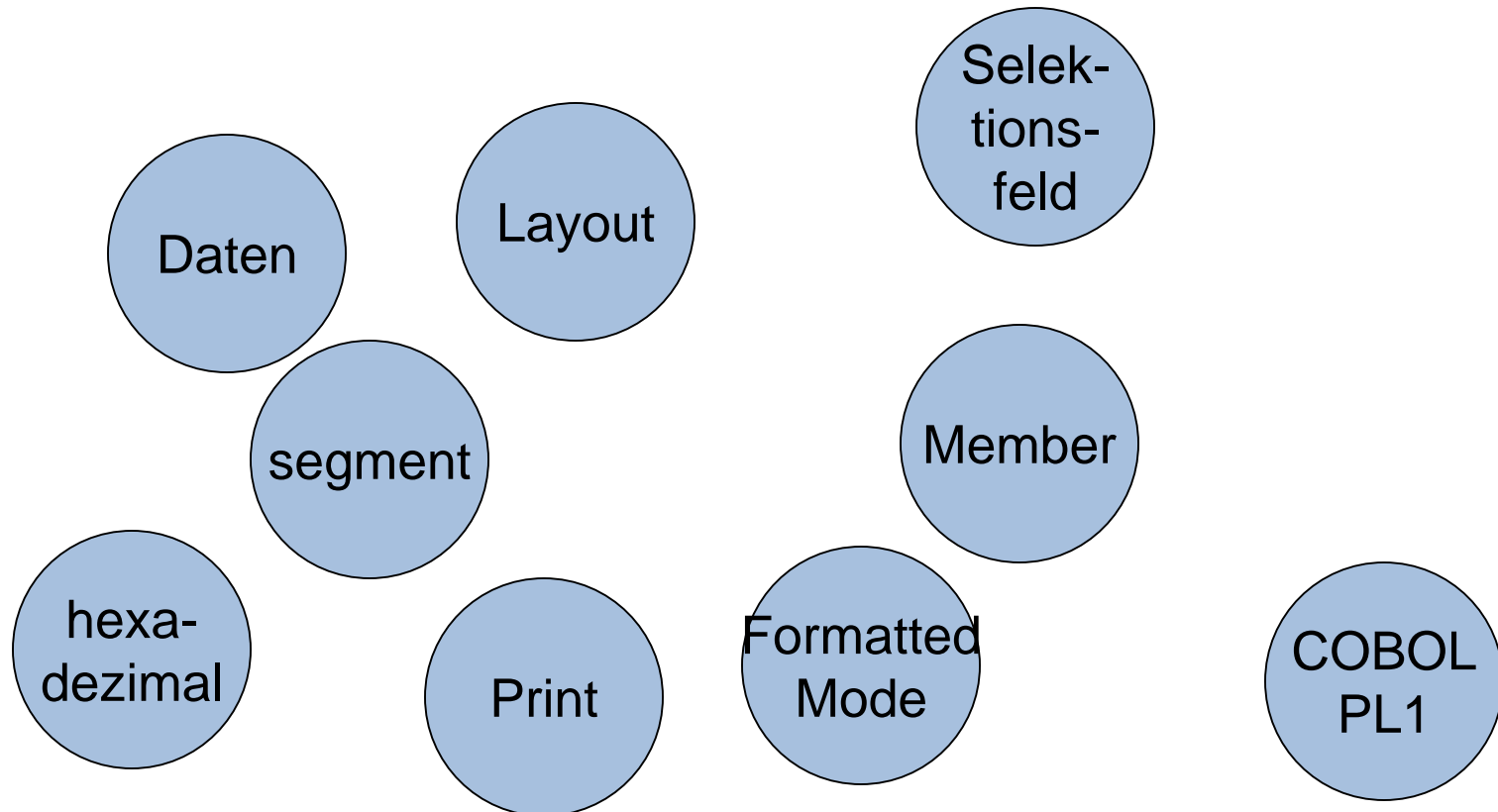
Cmd   Member   Beginning Data-Name           Description           Status
-----
___   SEGRECS   INS-BASE-FILE                 BASE
___   SEGRECS   CLI-BOAT-DATA                 SEGMENT
___   SEGRECS   CLI-BUSINESS-DATA            SEGMENT
___   SEGRECS   CLI-CAR-DATA                 SEGMENT
___   SEGRECS   CLI-HOME-DATA                SEGMENT
___   SEGRECS   CLI-LIFE-DATA                SEGMENT
***** END OF SELECTION CRITERIA *****
```

segmentierte Daten – Definition Unterscheidungskriterium

```
File-AID --- Formatted Selection Criteria -----
COMMAND ==>                                     SCROLL ==>
CRITERIA NUMBER: 1 OF 1 ORDER-LINE-DATA-PO      LAYOUT LENGTH:
---- FIELD LEVEL/NAME ----- -FORMAT- RO ----+-----1-----+-----2-----+-----3-
***** TOP OF DATA *****
5 RECORD-LENGTH          2/BI          0
5 ORDER-NO               6/AN
5 ORDER-LINE-KEY SYNC    2/GRP
  7 LINE-NUMBER          2/AN
5 ORDER-TYPE             2/AN          ** RECORD TYPE FIELD **
5 LINE-STATUS            7/AN
5 PART-NO                6/AN
5 DESCRIPTION            30/AN
```


-
- Einführung
 - Einstieg und Überblick
 - Optionen
 - Browse und Edit
 - Utilities
 - Print
 - Selektionskriterien
 -  • XREF-Datei
 - View Record Layout / Reformat
 - Compare

Begriffe



Funktionen

- verschiedene Formate in einer Datei
- Satz-Layout in Librarian/Panvalet gespeichert
- Struktur fest kodiert in einem Programm
- vor dem Satz gibt es Filler-Bereiche
- Satz ist Konkatinierung von Layouts
- Sätze sind segmentiert mit
 - festem Basisteil und
 - variable Trailersegmente



Definition Datei

```
File-AID ----- Record Layout Cross Reference -----  
COMMAND ==>
```

```
Specify Cross Reference Dataset to be Created or Edited:
```

```
XREF dataset name      ==> FASAMP.XREF
```

```
Member name           ==>                (Blank or pattern for member list)
```

```
Specify Record Layout Information:
```

```
Record layout dataset ==> FASAMP.LAYOUTS
```

```
This function creates and maintains existing File-AID Record Layout Cross  
References. These XREF's are used to match record layouts to data records in  
File-AID functions that use formatting.
```

PO, VB, LRECL>=300



Auswahl Member

```
File-AID - XREF Select - USERID9.FASAMP.XREF ----- ROW 1 TO 3 OF 3
COMMAND ===>                                     SCROLL ===> CSR
 S  NAME      DESCRIPTION                          TYPE      CHANGED      ID
  COBOLPGM    SELECT LAYOUT FROM PROGRAM          XREF      94/07/11 11:13  USERID9
  ORDRFILE    XREF FOR ORDRFILE                   XREF      94/07/11 11:13  USERID9
  SEGFILE     SEGFILE XREF                        XREF      94/07/11 11:36  USERID9
*****
***** BOTTOM OF DATA *****
```

Definition screen

```
File-AID ----- Define XREF - FASAMP.XREF(ORDERXRF) ----- ROW 1 TO 12 OF 15  
COMMAND ==>                                     SCROLL ==> CSR  
XR105-Valid line CMDS: C/M, B/A, I, R, D, EX, S, SF, SU, DEF, BAS, SEG  
Member list description ==> _____
```

```
    Long      ==> _____  
Description ==> _____
```

```
Generated filler length ==> 0      (0 to suppress filler)
```

Cmd	Member	Beginning Data Name	Description	Status
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----
----	-----	-----	-----	-----

Liste der Layouts

```
File-AID ---- List of Available Record Layouts ----- ROW 1 TO 2 OF 2
COMMAND ===>                                     SCROLL ===> CSR

  S      Nbr  Member      01-level Name      Status
  ---      -  -  -----  -  -----
          1  ORDERWO  INTERNAL-WORK-ORDER
          2  ORDERWO  OUTSIDE-VENDOR-WORK-ORDER
***** END OF SELECTION CRITERIA *****
```

Source Statement Selection

```
File-AID ----- Source Statement Selection -----  
COMMAND ==>  
  
"CURRENT" source dataset: USERID9.FASAMP.LAYOUTS(ORDERPO)  
  
    Enter beginning and ending character strings or source statement  
    line numbers or blank for entire member.  
  
Record layout selection by Character String:  
    Beginning string    ==> ORDER-LINE-DATA-PO  
    Ending string      ==>  
  
Record layout selection by Source Statement line number:  
    Beginning number    ==>  
    Ending number      ==>  
    Number type        ==> COBOL    (Standard; COBOL; or Relative)  
  
Compiler options:  
    Language           ==> COBOL    (COBOL or PL/I)  
    Starting level nbr ==> 01  
    Literal delineator ==> APOST    (Quote or apost; COBOL only)  
    Use 48 character set ==> NO     (Yes or No; PL/I only)
```


formatierte Auswahl

```
File-AID --- Formatted XREF Definition ----- COLUMNS 00001 00088
COMMAND ==>
COMMAND ==> SCROLL ==> CSR
CRITERIA NUMBER: 1 OF 1 INVENTORY-RECORD LAYOUT LENGTH: 189
---- FIELD LEVEL/NAME ----- -FORMAT- RO ----+----1----+----2----+----3----+
***** TOP OF DATA *****
5 INV-PART-NO 15/AN
5 INV-DESCRIPTION 40/AN
      (POS 38-40)
5 INV-UNIT-OF-MEASURE 2/AN
5 INV-UNIT-PRICE 4/PS
5 INV-STOCK-INFO(1) OCCURS 2 TIMES SYNC
      18/GRP
10 INV-WAREHOUSE(1) 3/AN
10 INV-STATUS(1) 6/AN
10 INV-QTY-DATE(1) SYNC 9/GRP
    15 INV-QTY-ON-HAND(1) 3/PS
    15 INV-LAST-ORDER-DATE(1) 6/AN
10 INV-BO-QTY-DATE REDEFINES INV-QTY-DATE
10 INV-BO-QTY-DATE(1) SYNC 9/GRP
    15 INV-QTY-BACKORDERED(1) 3/PS
    15 INV-BACKORDER-DATE(1) 6/AN
5 INV-STOCK-INFO(2) 18/GRP
10 INV-WAREHOUSE(2) 3/AN
10 INV-STATUS(2) 6/AN
```

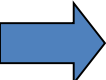
unformatierte Auswahl

```
File-AID ----- Unformatted XREF Definition ----- ROW 1 TO 13 OF 2  
COMMAND ==> SCROLL ==> CSR
```

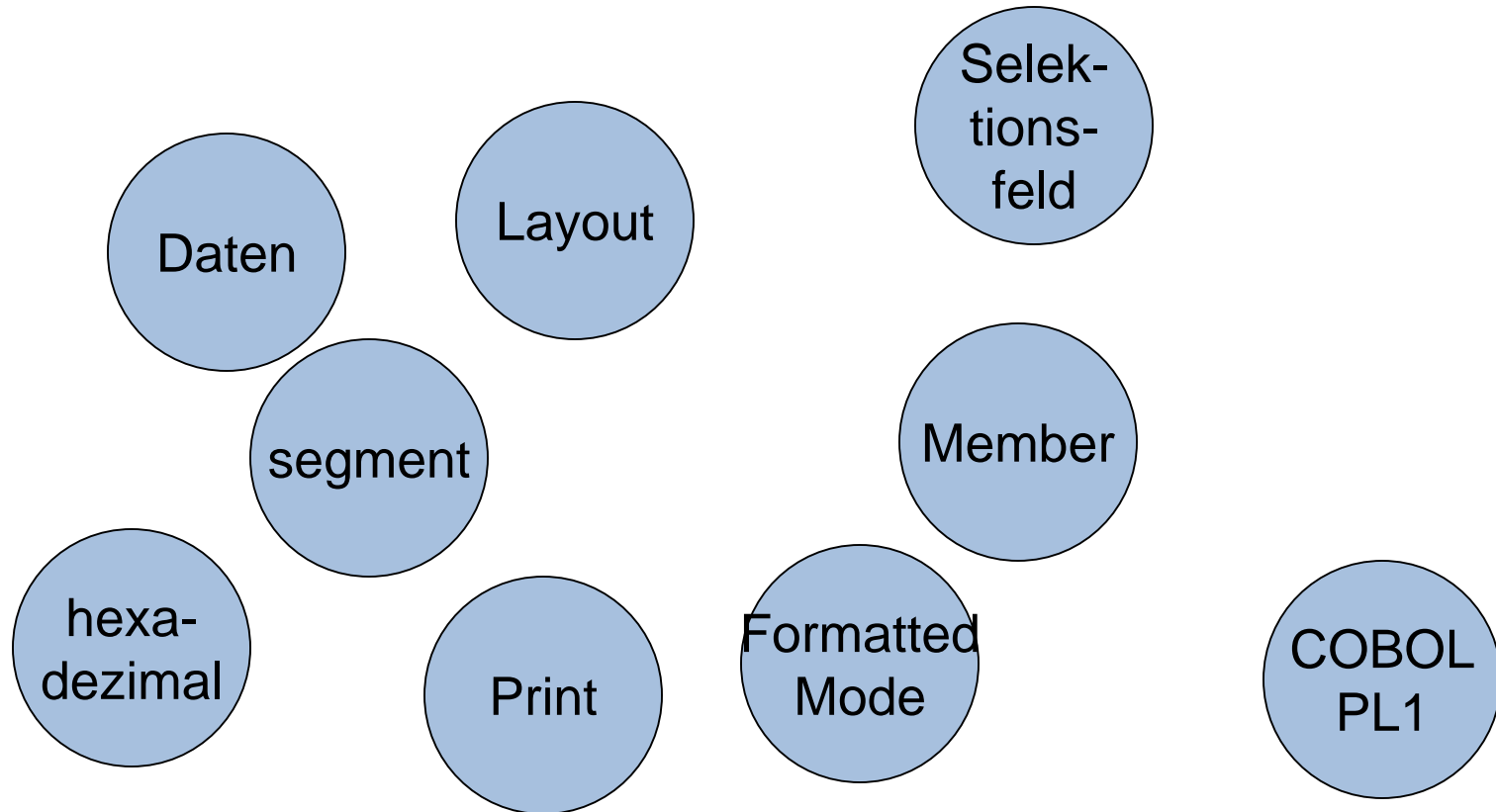
Use END to continue, CANCEL to return to main screen.

Record Layout Member:
Beginning Data Name:

Cmd	AND /OR	Position	Length	R0	Data Value
---		-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----
---	AND	-----	-----	EQ	-----

-
- Einführung
 - Einstieg und Überblick
 - Optionen
 - Browse und Edit
 - Utilities
 - Print
 - Selektionskriterien
 - XREF-Datei
 -  • View Record Layout / Reformat
 - Compare

Begriffe



View Record Layout

COBOL-Struktur

```
01  EMPLOYEE-MASTER-FILE.                05  EMP-NUMBER                          PIC X(5).
    05  EMP-LAST-NAME                      PIC X(15).
    05  EMP-FIRST-NAME                     PIC X(10).
    05  EMP-MID-INIT                       PIC X.
    05  FILLER                             PIC X(2).
    05  EMP-TITLE                          PIC X(30).
    05  EMP-PERSONAL-INFO.
        10  EMP-NATL-ID-NUMBER              PIC 9(9).
        10  FILLER                         PIC X(01).
        10  EMP-DATE-OF-BIRTH               PIC X(6).
        10  EMP-DOB-REDEF REDEFINES EMP-DATE-OF-BIRTH.
            15  EMP-DOB-MM                  PIC 99.
            15  EMP-DOB-DD                  PIC 99.
            15  EMP-DOB-YY                  PIC 99.
        10  EMP-HIRE-DATE                   PIC X(6).
        10  EMP-MARITAL-STATUS              PIC X.
    05  EMP-WITHOLD-INFO.
        10  EMP-LIFE-INS-WITHOLD-AMT        PIC S9999V99.
        10  EMP-NATL-TAX-WITHOLD-PCT        PIC S999V99  COMP-3.
        10  EMP-REGION-TAX-WITHOLD-PCT     PIC S999V99  COMP-3.
        10  EMP-LOCAL-TAX-WITHOLD-PCT      PIC S999V99  COMP-3.
```

View Record Layout

COBOL-Struktur – Anzeige

```
File-AID ----- VIEW LAYOUT ----- ROW 1 TO 19 OF 38
COMMAND ===>                               SCROLL ===> CSR
Layout: USERID9.FASAMP.LAYOUTS(EMPLOYEE)

----- FIELD LEVEL/NAME ----- -PICTURE- FIELD
                                         -NUMBER START      END      LENGTH
EMPLOYEE-MASTER-FILE
5 EMP-NUMBER                X(5)          1         1         5         5
5 EMP-LAST-NAME             X(15)         2         6        20        15
5 EMP-FIRST-NAME            X(10)         3        21        30        10
5 EMP-MID-INIT              X              4        31        31         1
5 FILLER                    XX             5        32        33         2
5 EMP-TITLE                  X(30)         6        34        63        30
5 EMP-PERSONAL-INFO         GROUP          7        64        86        23
  10 EMP-NATL-ID-NUMBER     9(9)          8        64        72         9
  10 FILLER                  X              9        73        73         1
  10 EMP-DATE-OF-BIRTH      X(6)         10       74        79         6
  10 EMP-DOB-REDEF REDEFINES EMP-DATE-OF-BIRTH
  10 EMP-DOB-REDEF          GROUP          11       74        79         6
    15 EMP-DOB-MM           99            12       74        75         2
    15 EMP-DOB-DD           99            13       76        77         2
    15 EMP-DOB-YY           99            14       78        79         2
  10 EMP-HIRE-DATE          X(6)         15       80        85         6
  10 EMP-MARITAL-STATUS     X              16       86        86         1
5 EMP-WITHOLD-INFO         GROUP          17       87       101        15
```

View Record Layout

PL1-Struktur

```
DCL 1  EMPLOYEE_MASTER_FILE,          5  EMP_NUMBER          CHAR(05),
      5  EMP_LAST_NAME                CHAR(15),
      5  EMP_FIRST_NAME               CHAR(10),
      5  EMP_MID_INIT                 CHAR(01),
      5  FILLER                       CHAR(02),
      5  EMP_TITLE                    CHAR(30),
      5  EMP_PERSONAL_INFO,
      10 EMP_NATL_ID_NUMBER           CHAR(09),
      10 FILLER                       CHAR(01),
      10 EMP_DATE_OF_BIRTH            CHAR(06),
      10 EMP_HIRE_DATE                CHAR(06),
      10 EMP_MARITAL_STATUS           CHAR(01),
      5  EMP_WITHHOLD_INFO,
      10 EMP_LIFE_INS_WITHHOLD_AMT     PIC '9999V99',
      10 EMP_NATL_TAX_WITHHOLD_PCT     FIXED DEC (5,2),
      10 EMP_REGION_TAX_WITHHOLD_PCT  FIXED DEC (5,2),
      10 EMP_LOCAL_TAX_WITHHOLD_PCT   FIXED DEC (5,2),
```

View Record Layout

PL1-Struktur – Anzeige

```
File-AID ----- VIEW LAYOUT ----- ROW 1 TO 19 OF 33
COMMAND ==>
Layout: USERID9.FASAMP.LAYOUTS(PLIEMP)
SCROLL ==> CSR

----- FIELD LEVEL/NAME ----- -PICTURE- -NUMBER START END LENGTH
EMPLOYEE_MASTER_FILE
5 EMP_NUMBER CHAR(5) 1 1 5 5
5 EMP_LAST_NAME CHAR(15) 2 6 20 15
5 EMP_FIRST_NAME CHAR(10) 3 21 30 10
5 EMP_MID_INIT CHAR(1) 4 31 31 1
5 FILLER CHAR(2) 5 32 33 2
5 EMP_TITLE CHAR(30) 6 34 63 30
5 EMP_PERSONAL_INFO GROUP 7 64 86 23
10 EMP_NATL_ID_NUMBER CHAR(9) 8 64 72 9
10 FILLER CHAR(1) 9 73 73 1
10 EMP_DATE_OF_BIRTH CHAR(6) 10 74 79 6
10 EMP_HIRE_DATE CHAR(6) 11 80 85 6
10 EMP_MARITAL_STATUS CHAR(1) 12 86 86 1
5 EMP_WITHOLD_INFO GROUP 13 87 101 15
10 EMP_LIFE_INS_WITHOLD_AMT PFXU(6,2) 14 87 92 6
10 EMP_NATL_TAX_WITHOLD_PCT DFX(5,2) 15 93 95 3
10 EMP_REGION_TAX_WITHOLD_PCT DFX(5,2) 16 96 98 3
10 EMP_LOCAL_TAX_WITHOLD_PCT
```



Definition

```
File-AID ----- Reformat Definition -----  
OPTION ==>  
  
blank - Create a new or change an existing reformat definition  
  D - Dynamically create and execute a temporary reformat definition  
  E - Execute a previously saved reformat definition  
  
Specify Reformat Definition Dataset:  
  Dataset name ==> 'USERID9.FASAMP.RFMTDEF'  
  Member name  ==>  
  Volume serial ==>                (If not cataloged)  
  Description   ==>  
  
Specify Execution Information:  
  Process online or batch ==>      (0 = Online; B = Batch)
```



Definition der Layouts

```
File-AID ----- Reformat Record Layouts -----  
COMMAND ==>  
  
Specify Source Record Layout and XREF Information:  
Record layout usage ==> S          (S = Single; X = XREF)  
Record layout dataset ==> 'USERID9.FASAMP.LAYOUTS'  
Member name ==> ORDERPO      (Blank or pattern for member list)  
XREF dataset name ==>  
Member name ==>              (Blank or pattern for member list)  
  
Specify Target Record Layout and XREF Information:  
Record layout usage ==> S          (S = Single; X = XREF)  
Record layout dataset ==> 'USERID9.FASAMP.LAYOUTS'  
Member name ==> EMPLOYEE     (Blank or pattern for member list)  
XREF dataset name ==>  
Member name ==>              (Blank or pattern for member list)  
  
Move corresponding? ==> YES      (YES or NO)  
  
Ignore prefix ==>  
Ignore suffix ==>
```

... bei multiple record types

```
File-AID --- Display XREF - ORDRFILE ----- ROW 1 TO 4 OF 4
COMMAND ==>                                SCROLL ==> CSR
Member list description ==> XREF FOR ORDRFILE

      Long      ==> RECORD TYPE FIELD IS ORDER-TYPE. FOR ORDERWO THE FIELD_____
Description ==> CONTRACT INDICATOR IS USED TO SELECT FROM TWO TYPES OF LAYOUT_

Cmd   Member   Beginning Data-Name           Description           Status
-----
_     ORDERPO  ORDER-LINE-DATA-PO           PO LINE DATA        BASE
_     ORDERSC  ORDER-LINE-DATA-SC           SC LINE DATA        BASE
_     ORDERWO  OUTSIDE-VENDOR-WORK-ORDER    WORK ORDER - OV     BASE
_     ORDERWO  INTERNAL-WORK-ORDER          WORK ORDER - IN     DEFAULT
***** END OF SELECTION CRITERIA *****
```

Definition der zu matchenden Felder

```
File-AID - Reformat Definition Editor - - - - -
COMMAND ==> SCROLL ==> PAGE
Source COBOL - EMPLOYEE-MASTER-FILE ---- USERID9.FASAMP.LAYOUTS(EMPLOYEE) -----
Num Field Name          Format Pic  OP Data      Row    1 of   35
 0 EMPLOYEE-MASTER-FILE  GRP/198
 1 EMP-NUMBER            AN/5
 2 EMP-LAST-NAME        AN/15
 3 EMP-FIRST-NAME       AN/10
 4 EMP-MID-INIT         AN/1
 5 FILLER                AN/2
 6 EMP-TITLE             AN/30
 7 EMP-PERSONAL-INFO    GRP/23
Target COBOL - EMPLOYEE-MASTER-FILE ---- USERID9.FASAMP.LAYOUTS(EMPLOYEE2) -----
Num Field Name          Format Pic  Data          Row    1 of   36
 0 EMPLOYEE-MASTER-FILE  GRP/211
 1 EMP-NUMBER            AN/5      /1
 2 EMP-FIRST-NAME       AN/15     /3
 3 EMP-MID-INIT         AN/1      /4
 4 EMP-LAST-NAME        AN/20     /2
 5 EMP-TITLE             AN/30     /6
 6 EMP-PERSONAL-INFO    GRP/24
 7 EMP-NATL-ID-NUMBER   NUM/9     9v00 /8
Use END Command to Save then End, CANCEL to Cancel, or EX to Execute Reformat
```

Editor Screen Area

```
File-AID ---- Reformat Definition Editor - DS TSOD001.FAXE.MAPS(GENERIC) - - -  
COMMAND ==> (1) SCROLL ==> CSR
```

```
      (2)          (3)          (4)  
Source COBOL BT-TEST-FIELD-1 ----- DGPBFM.FA.LAYOUT(COBMEM) -----  
Num Field Name      Format Pic  OP Data      Row  1 of 20 (8)  
1 AAA (5)  
2 BBB          (6)      (7)
```

. . .

```
      (9)          (10)         (11)  
Target PL/I BT_TEST_FIELD_1 ----- DGPBFM.FA.LAYOUT(PLIMEM) -----  
Num Field Name      Format Pic  Data      Row  1 of 20 (12)  
)  
1 AAA (5)  
          (6)      (13)
```

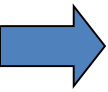
. . .

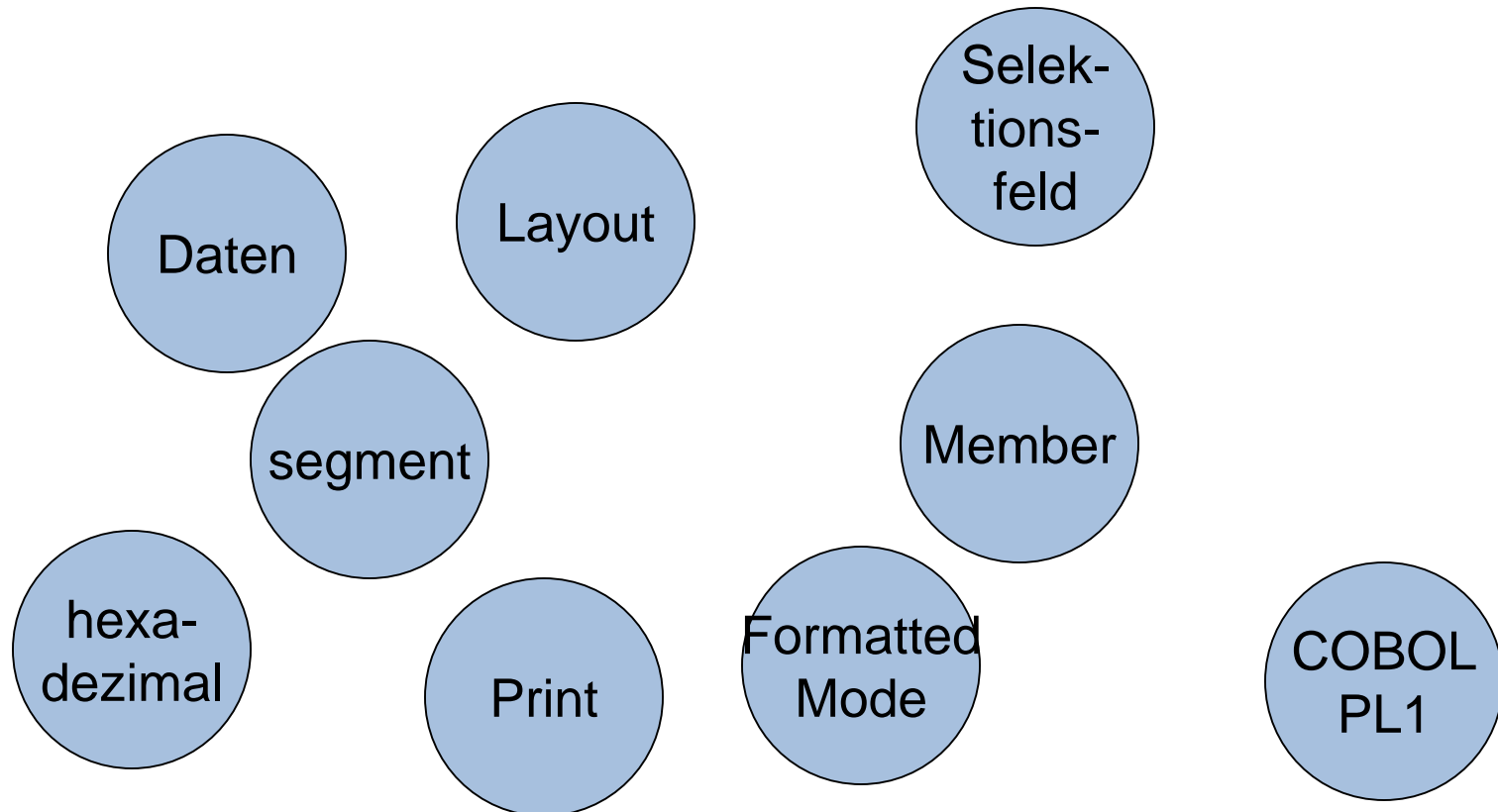
Editor Screen Area – Beschreibung der Bereiche

Number	Description
(1)	Dataset and member in which the reformat definition is saved.
(2)	Language of the source record layout.
(3)	Name of the 01 level field for the source record layout.
(4)	Dataset and member from which the source record layout was read.
(5)	Detail names of the fields in the record layout. In this sample screen, the first field is shown as AAA. The second field is BBB.
(6)	Format and picture (PIC) of the detail fields.
(7)	Operator (OP) and data area for the source record layout. Specify the reformat record selection criteria here.
(8)	Current row and total number of rows in the source window.
(9)	Language of the target record layout.
(10)	Name of the 01 level field for the target record layout.
(11)	Dataset and member from which the target record layout was read.
(12)	Current row and total number of rows in the target window.
(13)	Data area for the target record layout. Contains field references for the source fields to be copied, or the values to be used to initialize the field.



-
- Einführung
 - Einstieg und Überblick
 - Optionen
 - Browse und Edit
 - Utilities
 - Print
 - Selektionskriterien
 - XREF-Datei
 - View Record Layout / Reformat
 - Compare





Möglichkeiten – 1

- verschiedene Organisationsformen
- unterschiedliches Satz-Layout
- Lademodule vergleichen und CSECT-Informationen parsen
- Panvalet- / Librarian-Module vergleichen
- erzeugen von unterschiedlichen Dateien für veränderte, eingefügte, gelöschte, gleiche Sätze

Möglichkeiten – 2

- benutzen von Selektionskriterien
- definieren von Vergleichskriterien mit und ohne Layout (COBOL/PL1)
- verschiedene Kriterien bei multiple-record-files
- automatische Synchronisierung bei Dateien mit Schlüsseln
- überlesen von Sätzen

- Toleranzen bei numerischen Werten
- variable Ausgabe der Ergebnisse
- Layout kann für Protokollausgabe heran gezogen werden
- Ausgabe auf geänderte Felder beschränken
- Ausgabe von statistischen Informationen
- Ausgabe von ultra-kondensiertem Report
- Integration mit FileAid/Data Solutions



Datei festlegen – old

```
File-AID ----- Compare - OLD Dataset Specification -----
COMMAND ==>

Compare Mode          ==> F  (F = Formatted; U = Unformatted
                             L = Load Library; S = Source code; J = JCL)

Specify OLD Dataset Information:
Dataset name or HFS path ==> 'USERID9.FASAMP.EMPLOYEE'
Member name           ==>      (Blank or pattern for member list)
Volume serial         ==>      (If dataset is not catalogued)
I/O exit name         ==>      (User written I/O program)

Specify Record Layout and XREF Information:
Record layout usage   ==> S  (S = Single; X = XREF; N = None)
Record layout dataset ==> 'USERID9.FASAMP.LAYOUTS'
Member name           ==> EMPLOYEE (Blank or pattern for member list)
XREF dataset name     ==> 'USERID9.FASAMP.XREF'
Member name           ==> ORDRFILE (Blank or pattern for member list)

Specify Selection Criteria Information:      (E = Existing; T = Temporary;
Selection criteria usage ==> N              M = Modify; Q = Quick; N = None)
Selection dataset name  ==>
Member name             ==>      (Blank or pattern for member list)
```

Datei festlegen – new

```
File-AID ----- Compare - NEW Dataset Specification -----  
COMMAND ===>  
  
Compare Mode: FORMATTED  
  
OLD Dataset Name: USERID9.FASAMP.EMPLOYEE  
Specify NEW Dataset Information:  
  Dataset name or HFS path  ===> 'USERID9.FASAMP.EMPMAS'T  
  Member name               ===>                (Blank or pattern for member list)  
  Volume serial             ===>                (If dataset is not catalogued)  
  I/O exit name            ===>                (Exit name; blank=OLD exit; NONE)  
  
OLD Record Layout Usage: SINGLE  
Specify Record Layout and XREF Information:  
  Record layout dataset    ===> 'USERID9.FASAMP.LAYOUTS'  
  Member name              ===> EMPLOYEE   (Blank or pattern for member list)  
  XREF dataset name        ===> 'USERID9.FASAMP.XREF'  
  Member name              ===> ORDRFILE  (Blank or pattern for member list)  
  
Specify Selection Criteria Information:      (E = Existing; T = Temporary;  
  Selection criteria usage  ===> N          M = Modify; Q = Quick; N = None)  
  Selection dataset name    ===>  
  Member name               ===>                (Blank or pattern for member list)
```

Datei festlegen – Ausführungsoptionen

```
File-AID ----- Compare - Execution Options -----  
COMMAND ===>  
  
Specify Execution Options:  
  Process online or batch ===> 0          (0 = Online; B = Batch)  
  
Specify Compare Criteria Information:      (E = Existing; T = Temporary/New;  
  Compare criteria usage   ===> N          M = Modify; Q = Quick; N = None)  
  Compare criteria dataset ===>  
  Member name              ===>          (Blank or pattern for member list)  
  
Specify optional File-AID/Data Solutions Change Criteria  
to age dates, convert currencies, translate, generate, encrypt or  
otherwise modify data from OLD file userid0.FASAMP.EMPLOYEE  
  Use change criteria      ===> N          (Y = Yes; N = No; M = Modify)  
  Change criteria file     ===>  
  Member name              ===>          (Blank or pattern for member list)  
  Maximum invalid fields  ===> ALL        (ALL or number of invalid fields)
```

Vergleichskriterien

```
File-AID ----- Compare - Criteria Options -----  
COMMAND ===>  
  
Specify Initial Compare Options:  
  
Compare type          ===> R   (S = Sorted/Keyed; R = ReadAhead; 1 = 1-to-1)  
  
Read-ahead record count ===> 100 (If type = R, specify read-ahead count)  
Read-ahead sequence   ===> E   (E= Enforce; I = Ignore)  
  
Records to compare    ===> ALL (All or maximum number of records)  
Differences to compare ===> ALL (All or maximum number of differences)  
  
Modify print defaults ===> N   (Y = Yes; N = No)  
Specify output criteria ===> N   (Y = Yes; N = No)  
  
Associate Corresponding ===> Y   (Associate like field names? Y=Yes; N=No)  
  Ignore Prefix        OLD file ===>          NEW file ===>  
  Ignore Suffix        OLD file ===>          NEW file ===>
```

Kriterien für Ladebibliotheken

```
File-AID ----- Compare - Load Library Criteria -----  
COMMAND ===>  
  
Use "S" to select member compare criteria:  
S  Module Name  
-  Load Module Size  
-  Entry Point  
-  Link Attributes  
-  Link Date  
  
Use "S" to select CSECT compare criteria:  
-  CSECT Name  
-  CSECT Size  
-  Language  
-  CSECT Date  
-  IDR ZAP Data  
-  Text  
  
Stop text compare threshold      ===> ALL      (All or maximum number of  
                                     differences for a CSECT)  
Specify CSECT selection criteria ===> N        (Y = Yes; N = No)  
Modify print defaults            ===> N        (Y = Yes; N = No)
```


Sourcekriterien

```
File-AID ----- Compare - Source Criteria -----  
COMMAND ==>  
  
Compare criteria:  
Source code language      ==> 1  (1 = COBOL; 2 = PLI)  
  
Line compare synchronization ==> L  (L = Line content;  
                                     C = COBOL sequence number;  
                                     S = Standard sequence number)  
  
Case sensitive             ==> A  (A = As is; C = Convert to uppercase)  
Columns to compare -----> from ==> (1 - 80 column range;  
                                     to   ==> blank = use language default)  
  
Exclude Options:  
Exclude comments          ==> Y  (Y = Yes; N = No)  
Exclude blank lines       ==> Y  (Y = Yes; N = No)  
Exclude compiler directives ==> Y  (Y = Yes; N = No)  
Selection criteria action ==> I  (I = Include; E = Exclude)  
  
Print Options:  
Modify print defaults     ==> N  (Y = Yes; N = No)
```

- Einführung
- Einstieg und Überblick
- Optionen
- Browse und Edit
- Utilities
- Print
- Selektionskriterien
- XREF-Datei
- View Record Layout / Reformat
- Compare

