

Preparing for Execution

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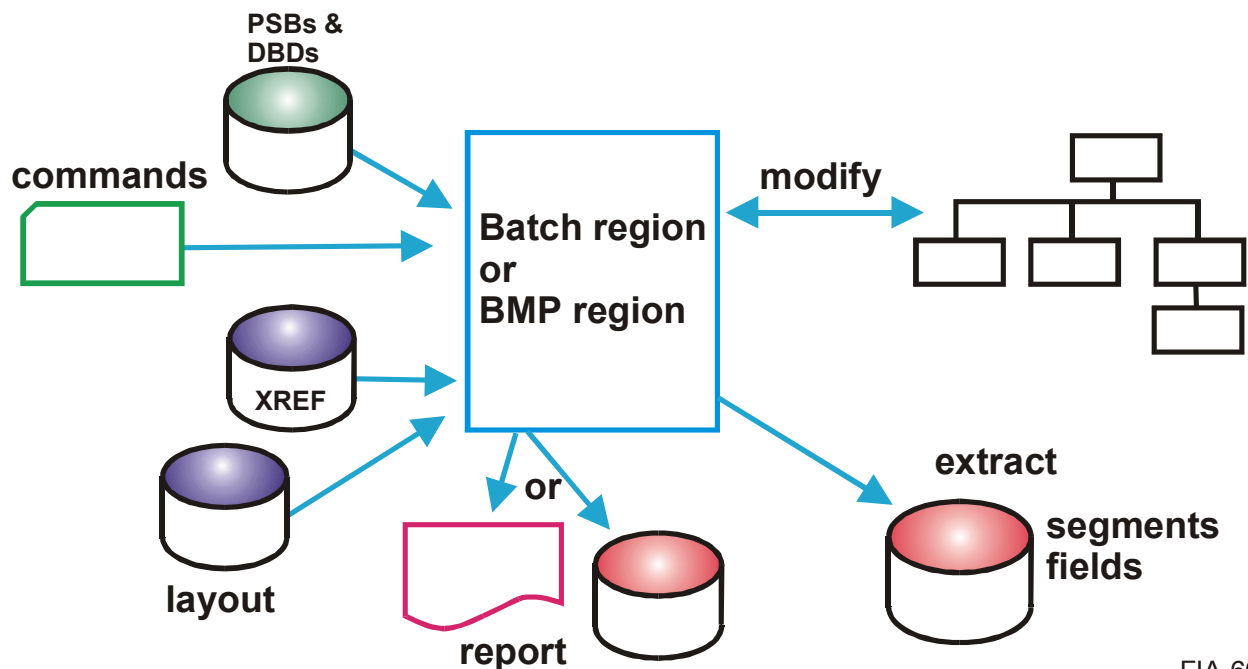
Introduction

This section examines the primary commands which set up the execution environment for batch FileAID IMS execution. They are held in the IXPED file.

- TYPE
- PSB
- SET
- SETEXTRACT
- TITLE

If COBOL or PL/1 segment layouts are to be used, they must be stored in a PDS or sequential file which has the following attributes:

- RECFM=F or FM
- LRECL=80



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TYPE

```
>>--TYPE-- | -RUN----- | --;--<<  
          | -VALIDATE- |
```

This statement is similar in effect to the TYPRUN=SCAN parameter on the JOB statement in JCL.

Code:

```
TYPE VALIDATE ;
```

if you only want to validate the statements, but not execute them.

The default is:

```
TYPE RUN ;
```

You should expect to code it anyway as the first command statement.

PSB

The PSB statement tells File-AID which DBD to process. You can code the DBD name itself, or supply the PCB number within the PSB definition. The number is in the range 1-500.

```
PSB DBDNAME=OAK5DBD ;
```

```
PSB PCB=3 ;
```

The PSB statement for static PSBs is:

```
>>--PSB--|-----|--;--<<
      |-| Optional Keywords |-|

Optional Keywords:
|---|-----|---|-----|--->
|-DBNAME=---dbdname-| | -COBOL-| |
|-PCB=---number-----| | -LANG=---|-----|-|
                                     |-COB---|
                                     |-PL/I---|
                                     |-PLI---|
                                     |-PL/1---|
                                     |-PL1---|

>---|-----|---|
      | -DBDNAME- | |
|-XREF=---|-----|-|
          |-mbrname-|
          |-NONE-----|
          |-NO-----|
```

The LANG parameter is ignored if XREF=NONE is specified.

The XREF parameter specifies the member which contains a cross reference list of the segment layouts for the segments in the database.

The following example uses a static PSB along with a COBOL layout.

```
TYPE=RUN ;
```

```
PSB PCB=3 XREF=OAK5RL LANG=COBOL ;
```

```
TYPE=RUN ;
```

```
PSB PCB=2 ; <<< default XREF name is same as DBDname, COBOL
```

The syntax for dynamically built PSBs is:

```
>>--PSB--|-----|--;--<<
      |-| Optional Keywords  |-|
```

Optional Keywords:

```
|--|-----|--|-----|--|-----|--|
  |-DBNAME=--dbdname-|  |-LANG=-----|  |  |-DBDNAME-|  |
  |-PCB=--1-----|  |  |-COBOL-|  |  |-XREF=--|-----|  |-|
                                     |-|-----|  |-|
                                     |-COB---|  |-NONE-----|
                                     |-PL/I--|  |-NO-----|
                                     |-PLI---|
                                     |-PL/1--|
                                     |-PL1---|
```

The PCB number defaults to 1, as there will only be one database. If you code the DBDNAME parameter, you must make sure that it is the same as that coded on the PARM parameter of the EXEC statement.

MAXERRORS

This tells File-AID how many non-critical execution errors are allowed per command statement. Statement execution stops if the MAXERRORS is equalled or exceeded. File-AID resets the value to 0 at the start of a statement's execution.

Errors include:

- DA on a replace call
- DX on a delete call
- GE on an insert call
- II on an insert call
- IX on an insert call
- NI on an insert or replace call
- RX on a replace call
- V1 on insert or replace call

Following a command termination due to MAXERRORS, File-AID examines the SKIP/NOSKIP value of the PROCESS keyword to determine whether to continue execution.

The error messages will be written to SYSOUT. If that is dummied out, they will be written to IPXSTATS.

PRINT

This specifies the print options for commands.

CALL/NOCALL

Print DL/1 call information for each call

PCB/NOPCB

Print PCB information for each call

SGM/NOSGM

Print the segment

FPRINT/SPRINT

Use formatted (FPRINT) or unformatted (SPRINT) mode

SET PRINT=(CALL, PCB)

PROCESS

This tells File-AID whether to continue processing following a non-critical error.

INPUT

This identifies a PDS member which will be used during input processing. The member will contain values used to compare fields, replacement data, insert data, etc.

If input processing is used (SET=INPUT(start,length,type)) but no member is present, File-AID takes the member name from the DD statement; if none is coded, the input must be a sequential dataset.

The DDname of this file is IXPIN.

OUTPUT

This identifies a PDS member which will hold the output of the concatenated keys when the CKEY option is coded on the OPTION keyword of the COUNT command.

If a member name is missing, the output will be to a sequential file.

The DDname of this file is IXPOUT.

LANGUAGE

This specifies the language used in the field names and cross reference record layouts.

ALLOW-SEQUENTIAL

This tells File-AID whether a statement which leads to a database scan will be considered as an error. The default is YES, allow the scan.

Examples

```
TYPE RUN ;
PSB  PCB=3 ;
SET  INPUT=NEWDATA ;
```

```
TYPE RUN ;
PSB  DBD=POLYDBD ;
SET  INPUT=NEWDATA OUTPUT=POLYKEYS PRINT=(CALL, PCB) ;
:
: in the same step . . .
:
PSB  DBD=CUSTDBD ;
SET  MAXERRORS=5 OUTPUT=CUSTKEYS MAXCALLS=250 ;
```

SETEXTRACT

The SETEXTRACT command is used to override system defaults for the EXTRACT sub-command. Its effects last until another SETEXTRACT for the same parameter.

```
>>--SETEXTRACT--|-----|--;--<
                |-| Optional Keywords |-|

Optional Keywords:
|---|-----|---|-----|---|-----|--->
    |-CFILL=---|-'X'---|-|   |-PFILL=---X'XX'---|   |-NFILL=---X'XX'---|
                        |-X'XX'---|

    |-OFILL=---X'XX'---|   |   |-SINGLE-|   |   |   |-NO--|
                        QUOTE=---|-DOUBLE-|-|   |-CQUOTE=---|-YES-|-|

>---|-----|---|-----|---|-----|--->
    |   |   |-NO--|   |   |   |-'X'---|   |   |   |-NO--|   |
    |-NQUOTE=---|-YES-|-|   |-DELIM=---|-X'XX'---|-|   |-LAYOUT=---|-YES-|-|

>---|-----|---|-----|---|
    |-EXTRACTx=---mbrname-|   |-LAYOUTx=---mbrname-|
```

CFILL

This is the fill value for character fields (e.g. X'40').

PFILL

This is the fill value for packed decimal fields (e.g. X'0C').

NFILL

This is the fill value for other numeric fields.

OFILL

This is the fill value for other data types such as hexadecimal, pointer, index, bit.

QUOTE

This tells File-AID whether to use single or double quotes when enclosing field values. S and D can also be used.

CQUOTE

This specifies whether quotes will be used with character data.

NQUOTE

This specifies whether quotes will be used with numeric data.

DELIM

This specifies the field separator character which will be used in the extract dataset. If this is omitted, no field separator character will be used to delimit the fields in the extract dataset.

LAYOUT

This tells File-AID whether to create a layout of the extract record.

EXTRACT_x (x is 1 – 5)

This specifies the member name for the extract dataset (if the extract dataset is partitioned).

LAYOUT_x (x is 1 – 5)

For a partitioned layout dataset, this specifies the member name used.

SETEXTRACT CFILL='-' QUOTE=D DELIM=':'

TITLE

You can place up to three lines of title on each page of a report. Each line may be up to 60 characters long.

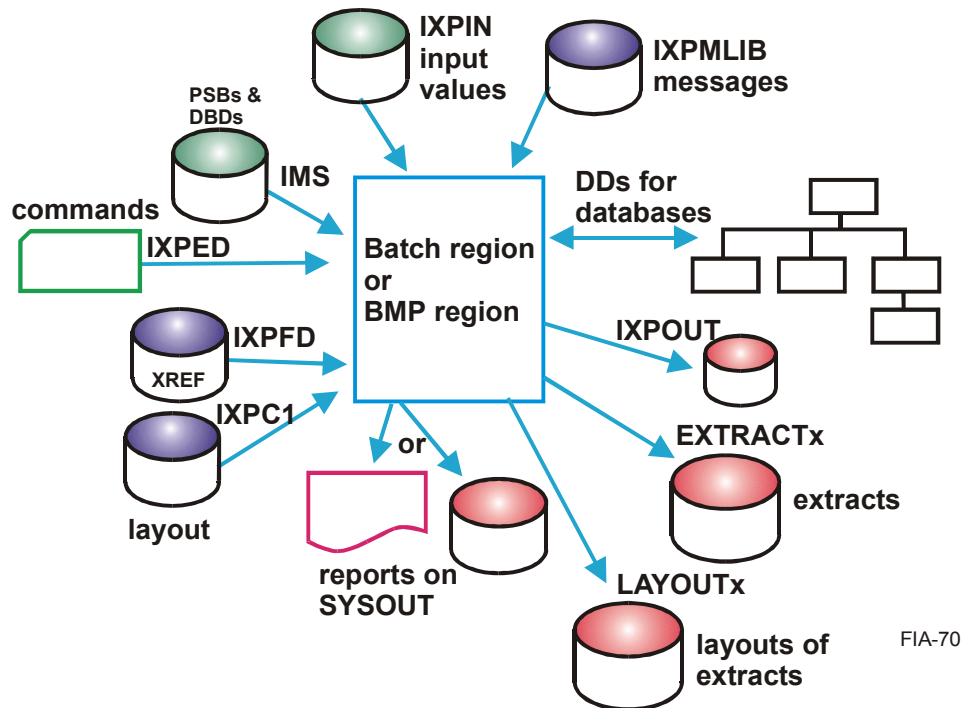
```

                <-----|
>>--TITLE-----|-----|---;--><
                |-LINE01=value-|
                |-LINE02=value-|
                |-LINE03=value-|
    
```

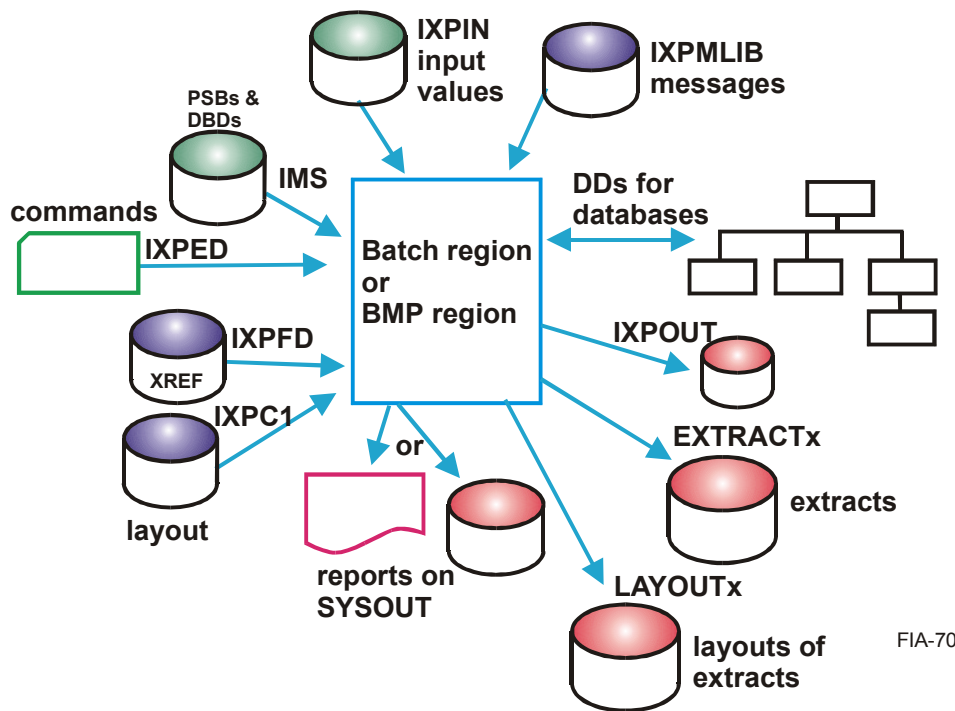
```

TYPE RUN;
PSB DBD=POLYDBD;
TITLE LINE01 'POLICY REPORT FOR NORTH-WEST REGION' ;
    
```

Batch JCL



```
//jobname JOB (accounting)
/*-----*
/*FILE-AID FOR IMS/FLEX *
/*-----*
//BATCHRUN EXEC PGM=IXPBATDV,REGION=4096K,
//          COND=(0,LT) ,
//          PARM='parameter information'
//STEPLIB DD DSN=ims-reslib-dataset-name,DISP=SHR
//          DD DSN=File-AID-loadlib,DISP=SHR
//DFSRESLB DD DSN=ims-reslib-dataset-name,DISP=SHR
//IMS      DD DSN=dbdlib-dataset-name,DISP=SHR
//          DD DSN=psbllib-dataset-name,DISP=SHR
//IEFRDER DD DUMMY          IMS log, not required for BMP jobs
//DFSVSAMP DD DSN=dfsvsamp-pds (member) ,DISP=SHR
//IXPMLIB DD DSN=File-AID-message-lib,DISP=SHR
/*
```



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```
//SYSOUT DD SYSOUT=output-class
//* or
//SYSOUT DD DSN=flex-reports-dataset,DISP=(NEW,CATLG,DELETE),
// SPACE=(TRK,(1,1),UNIT=SYSDA,
// RECFM=FB,LRECL=133,BLKSIZE=1330
//*
//IXPSTATS DD DUMMY
//dbdd1 DD DSN=database-dataset-1,DISP=SHR
//dbdd2 DD DSN=database-dataset-2,DISP=SHR
//dbddn DD DSN=database-dataset-n,DISP=SHR
//IXPFD DD DSN=segment/layout-xref,DISP=SHR
//IXPC1 DD DSN=COBOL/PLIlayout-dataset-1,DISP=SHR
//IXPC2 DD DSN=COBOL/PLIlayout-dataset-2,DISP=SHR
//IXPED DD DSN=input-commands-pds(member),DISP=SHR
//IXPIN DD DSN=input-values,DISP=SHR
//IXPOUT DD DSN=output-values,DISP=SHR
//EXTRACT1 DD DSN=extract-dataset-1,DISP=SHR
//EXTRACT2 DD DSN=extract-dataset-2,DISP=SHR
//EXTRACT3 DD DSN=extract-dataset-3,DISP=SHR
//EXTRACT4 DD DSN=extract-dataset-4,DISP=SHR
//EXTRACT5 DD DSN=extract-dataset-5,DISP=SHR
//LAYOUT1 DD DSN=layout-dataset-1,DISP=SHR
//LAYOUT2 DD DSN=layout-dataset-2,DISP=SHR
//LAYOUT3 DD DSN=layout-dataset-3,DISP=SHR
//LAYOUT4 DD DSN=layout-dataset-4,DISP=SHR
//LAYOUT5 DD DSN=layout-dataset-5,DISP=SHR
```

PARM information on EXEC statement

For the DLI Environment:

```
//      PARM= ' /NDLI , mode , &PSB , &BUF ,
//              &SPIE&TEST&EXCPVR&RST , &PRLD ,
//              &SRCH , &CKPTID , &MON , &LOGA , &FMTO ,
//              &IMSID , &SWAP , &DBRC , &IRLM , &IRLMNM ,
//              &BKO , &IOB , &SSM , &APARM '
```

For the BMP Environment:

```
//      PARM= ' /NBMP , mode ,
//              &PSBNAME , &IN , &OUT ,
//              &OPT&SPIE&TEST&DIRCA , &PRLD , &STIMER ,
//              &CKPTID , &PARDLI , &CPUTIME , &NBA , &OBA ,
//              &IMSID , &AGN , &SSM , &PREINIT , &ALTID , &APARM '
```

The mode parameter is in the form xyyy:

x S static PSBs are used; &PSB specifies the one to be used

 D dynamic PSB is to be used; &PSB specifies the name of the DBD

yyyy not used by a DLI region, though must be present

 for a BMP region, this identifies IPRMS BMP entry to be used