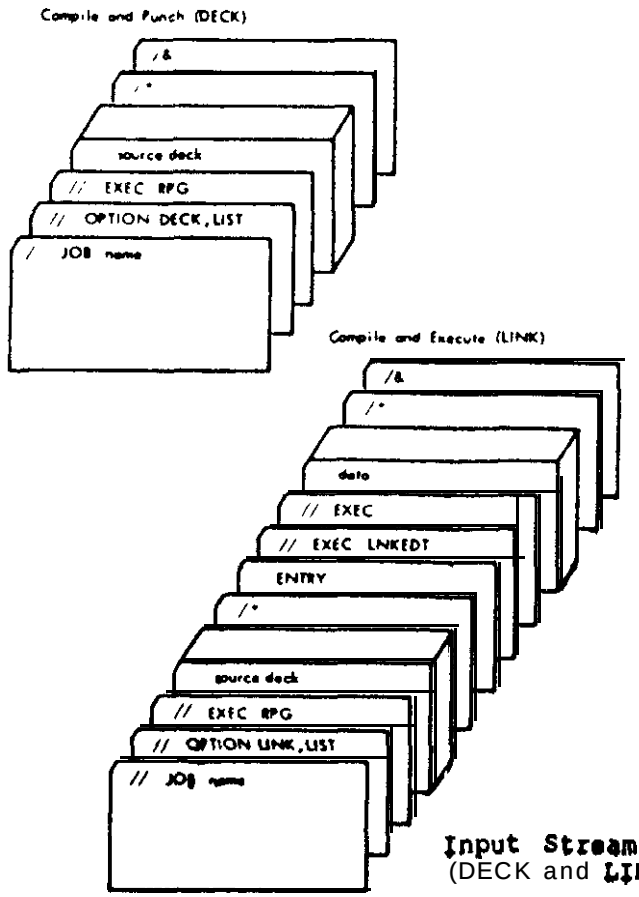
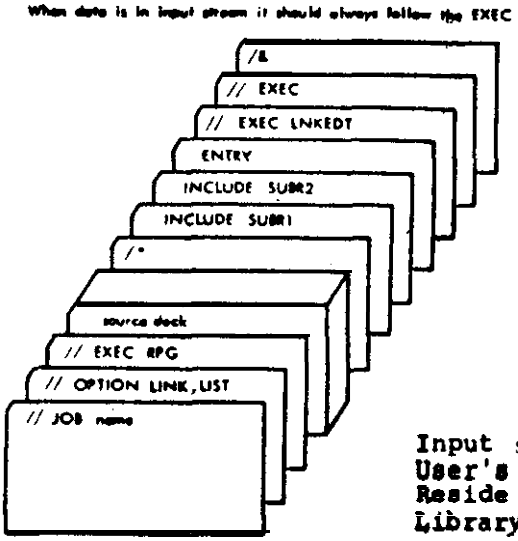
APPENDIX

Typical Job Control Cards



Input Stream for Executing **RPG** (DECK and **LINK Options**)

When data is in input stream it should always follow the EXEC (blank) card.



Input stream for Executing **RPG-User's Routines (SUBR1, SUBR2) Reside** in the **System Relocatable Library.**

Test Programs With Printouts

TEST PHASE 1

```
DOS/360*RPG*CL 3-5                    HLS1

                H
001             FCARDS   IP  F  80  80          RE4001 SYSRDR
002             FPRINT   O   F 132 132          PRINTERSYSLST
003             ICARDS   AA  01  20 C1
004             I                                     1   4 DEPT
005             I                                     5   7 ITEM
006             I                                     9  11QUANTY
007             I                                    13  15?PRICE
008             OPRINT   H  201   1P
009             O                                  18 'DEPARTMENT     ITEM'
010             O                                  46 'QUANTITY       PRICE'
011             O        D  1     01
012             O                          DEPT     7
013             O                          ITEM    18
014             O                          QUANTYZ 33
015             O                          PRICE   46 '  .  '
                O* END OF TEST
```

RPG Program Listing

DEPARTMENT	ITEM	QUANTITY	PRICE
FURN	123	321	4.55
LAMP	124	100	2.00
TV	125	354	3.00

RPG Program Printout

```
DOS/360*RPG*CL 3-5                    HLS2

          01 01  H
001       01 02  FIN      IP  F  80  80          READ01 SYSRDR
002       01 03  FOUT     O   F 132 132          PRINTERSYSLST
003     S 01 01  IIN      AA  01   1 CR
004       02 02  I                                    2   3 DEPT
005       02 03  I                                    5   7 SER#
006     S 01 04  I                                    9  11 HRS
007       02 05  I                                   13  15 RATE
008       02 06  I                                   22  39 NAME
009       02 07  I        BR  03
010       03 01  C   01      RATE       MULT HRS      PAY     52
011       03 02  C   01      TPAY       ADD  PAY      TPAY    62
012       04 01  OOUT     H  201   1P
013       04 02  O                                  18 'NUMBER          NAME'
014       04 03  O                                  46 'HOURS RATE        PAY'
015       04 04  O        O  1      01
016       04 05  O                          DEPT      2
017       04 06  O                          SER#  Z    6
018       04 07  O                          NAME      25
019       04 08  O                          HRS       31 '  .  '
020       04 09  O                          RATE      37 '  .  '
021       04 10  O                          PAY       49 '   .  '
022       04 11  O        T  1      LR
023       04 12  O                          TPAY      49 ' ,   .  '
          04 13  O* END OF TEST
```

RPG **Program** Listing

NUMBER	NAME	HOURS	RATE	PAY
34 135	ADAMS, JEREMY	40.0	2.50	100.00
57 246	BACH HILDA	35.0	2.00	70.00
68 312	GRANT LEONARD	42.0	2.00	84.00
89 475	LEE LAURA	25.0	2.25	56.25
				310.25

RPG **Program** Printout

```
DOS/360*RPG*CL 3-5                    HLS3

        01      H
001     01 02   FDATA     IP  F  80  80            READ01 SYSRDR
002     01 03   FREPORT   O   V 132 132            PRINTERSYSLST
003     02 01   IDATA     AA  10    1 CD
004     02 02   I                                      2   3 DEPT
005     02 02   I                                      5   8ITEM
006     02 04   I                                      9  11NUMBER
007     02 05   I                                     13  17AMOUNT
008     02 06   I         77  05
        03 01   C*        CALCULATIONS
009     03 02   C   10      NUMBER    MULT AMOUNT     AMTSAL  72
010     03 03   C   10      AMTSAL    MULT .02        SALETX  62
011     03 04   C   10      SALETX    ADD  AMTSAL     TAMT    82
012     04 01   OREPORT H  201   1P
013     04 02   O                                    20 'DEPT  ITEM    NUMBER'
014     04 03   O                                    42 'AMOUNT   EXTENSION'
015     04 035  O                                    49 'SALES'
016     04 04   O                                    72 'TAX        TOTAL AMOUNT'
017     04 04   O         D  1      1U
018     04 05   O                          DEPT       3
019     04 06   O                          ITEM  2    10
020     04 07   O                          NUMBER2    18
021     04 08   O                          AMOUNT     29 '  0.  '
022     04 09   O                          AMTSAL     41 '  ,  0.  '
023     04 10   O                          SALETX     52 '  ,  0.  '
024     04 11   O                          TAMT       70 '  ,  0.  '
025     04 12   O         D  1      05                 5 'ERROR'
026     04 12   O
027     04 13   O         T  2      LR
028     04 14   O                                    16 '**END OF DATA**'
        04 15   O* END OF PROGRAM
```

RPG Program Listing

```
DEPT  ITEM    NUMBER    AMOUNT   EXTENSION  SALES TAX      TOTAL AMOUNT

 49   1107      10      47.50      475.00       9.50           484.50
 52   2912       1     152.16      152.16       3.04           155.20
ERROR
 82    101       5      83.10      415.50       8.31           423.81

 **END OF DATA**
```

RPG Program Printout

TEST PHASE 4

```
005/360*RPG*CL 3-5                    HLS4

         01 01  H
001      01 02  FDATA     IP  F  80  80            READ01 SYSRDR
002      01 03  FREPORT   O   V 137 132            PRINTERSYSLST
003      02 01  IDATA     AA  10   1 CR
004    S 01 02  I                                        2   3 DEPT
005      02 03  I                                        5   8 ITEM
006      02 04  I                                        9  11 QUANT
007      02 05  I                                       13  17 PRICE
008      02 06  I                                       20  23 SMEN
009      02 07  I                                       24  24 CHARGE       05
010      02 08  I          CC  20   1 CT
011      02 09  I          DD  30
012      03 01  C   10       QUANT      MULT PRICE      SALE     82
013      03 02  C   10       SALE       ADD  TSALE      TSALE    92
014      04 01  OREPORT  H  201   1P
015      04 02  O                                      24 'DEPT      ITEM  QUANTITY'
016      04 03  O                                      44 'PRICE   EXTENSION'
017      04 04  O          D  1      10
018      04 05  O                          DEPT        2
019      04 065 O                          SMEN   Z    7
020      04 066 O                          ITEM   Z   13
021      04 07  O                          QUANT  Z   21
022      04 08  O                          PRICE      32 '  0.  '
023      04 09  O                          SALE       43 '   ,  0.  '
024      04 10  O                    05                47 'CHG'
025      04 11  O          D  1      30
026      04 12  O                                      13 'ERROR IN CARD'
027      04 13  O          T  2      20
028      04 14  O                          TSALE      43 '  ,   , $0.  '
         04 15  O* END OF PROGRAM
```

RPG Program Listing

```
DEPT      ITEM  QUANTITY   PRICE    EXTENSION

49 4162  1107        10     47.50      475.00
52 5311  2912         1    152.16      152.16 CHG
76 2347   514         4      2.11        8.44
                                     $635.60
```

RPG Program Printout

TEST PHASE 5

```
DOS/360*RPG*CL 3-5                    HLSS

         01 01  H
001      01 02  FCARDS   IP AF  80  80            READ40 SYSRDR
002      01 03  FRECORD  O   V 132 132      OF     PRINTERSYSLST
003      02 01  ICARDS   AZ  03
004      02 02  I                                     1   4 ITEMS   MI
005      02 03  I                                     7   8 DEPT  L1
006      02 04  I                                    11  12ONHAND
007      02 05  I                                    15  16ORDRPT
008      02 06  I                                    21  24COST
009      02 07  I                                    26  27REQAMT
010      03 01  C                    SETOF                    0510
011      03 02  C   03       ONHAND  SUB   ORDRPT     REORDR  20   1010
012      03 03  C   10       REQAMT  MULT  COST       CHARGE  62
013      03 04  C   10       CHARGE  ADD   TCHARG     TCHARG  72
014      03 05  C   10       CHARGE  ADD   SCHARG     SCHARG  72
015      03 06  C   H0               SETON                    05
016      03 07  C   H0               SETOF                    H0
017      04 01  ORECORD  H   101    1P
018      04 02  O        OR         OF
019      04 03  O                          PAGE   7   60
020      04 04  O          H  2      1P
021      04 05  O        OR          OF
022      04 06  O                                   16 'ITEM  DEPT'
023      04 07  O                                   36 'ON HAND  UNIT COST'
024      04 08  O                                   61 'TOTAL COST       NUMBER'
025      04 09  O          D  1      03
026      04 10  O                          ITEMS    10
027      04 11  O                    L1    DEPT     15
028      04 12  O                    10    REQAMT   60 ' 0'
029      04 13  O                    10    COST     35 ' 0.  '
030      04 14  O                    10    CHARGE   48 '  .  0.  '
031      04 15  O                          ONHANDZ  24
032      04 16  O                    05              65 'ERR'
033      04 17  O          T  2      L1
034      04 18  O                          SCHARG B 48 '   , $0.  '
035      04 19  O          T  2      LR
036      04 20  O                          TCHARG   48 '   , $0.  '
```

RPG Program Listing

```
                                                                  1
ITEM  DEPT  ON HAND  UNIT COST  TOTAL COST        NUMBER

1579    77       18       8.50        85.00            10
1782             20      17.50        35.00             2
                                    $120.00

1754    15       35                                        ERR
1997             20      11.00        77.00             7
                                     $77.00

                                    $197.00
```

RPG Program Printout

TEST PHASE 6

```
005/360*RPG*CL  3-5                    HLS6

        01 01  H
001     01 02  FORDERS  IP  F  80   80            READ01 SYSRDR
002     01 03  FOUT     O   V 132 132             PRINTERSYSLST
003     02 01  IORDERS  AA  01   20 CD
004     02 02  I                                        1   6DDATE
005     02 03  I          CD  10   20NCD
006     02 04  I                                        3   5DORIG
007     02 05  I                                        9  10DNEW
008     02 06  I                                       14  15DSPESHL
009     02 07  I                                       16  19 ITEM
010     03 01  C   10        ORIG      ADD  NEW        REORDR  30
011     03 02  C   10        REORDR    SUB  SPESHL     REORDR
012     03 03  C   10        REORDR    COMP 12                   95  97
013     03 04  C   10 95               GOTO HERE
014     03 05  C   10N97     REORDR    COMP 5                    979697
015     03 06  C   10 97               MOVE 5          REORDR
016     03 07  C   10 96N97            MOVEL010        REORDR
017     03 08  C             HERE      TAG
018     03 09  C   10        REORDR    ADD  TORDER     TORDER  50
019     04 01  OOUT      H  1      1P
020     04 02  O                                      67 'A.B.C. COMPANY'
021     04 03  O                          PAGE       120 '    '
022     04 04  O          H  2      01
023     04 05  O                          DATE        63 '  -  -
024     04 06  O          H  2      01
025     04 07  O                                      70 'ON HAND   RE-ORDERS'
026     04 08  O          D  1      10
027     04 09  O                          ORIG    B  56 '  0'
028     04 10  O                          REORDR  B  67 '  0'
029     04 11  O                          ITEM       49
030     04 12  O          T  L      LR
031     04 13  O                          TORDER2    67
```

RPC **Program Listing**

```
        A.B.C. COMPANY
          12-08-70

      ON HAND   RE-ORDERS

1340      6          5
1552      4         13
1784      3         10
1926      4          5

                    33
```

RPG Program Printout

Appendix 3

Device Names of Input/Output Devices

DEVICE CODE	INPUT/OUTPUT UNIT
IBM S/360 and IBM 1130	
READ01	IBM 2501 CARD READER
READ02	IBM 1402 CARD READER
READ20	IBM 2520 CARD READ/PUNCH
READ40	IBM 2540 CARD READ/PUNCH
READ42	IBM 1442 CARD READ/PUNCH
PUNCH20	IBM 2520 CARD PUNCH, MODEL A2 or A3
PUNCH42	IBM 1442 CARD PUNCH, MODEL 5
PRINTER	IBM 1403 PRINTER, or IBM 2203 PRINTER (STANDARD OR LOWER FEED)
PRINTLF	IBM 2203 PRINTER, LOWERFEED
PRINTUF	IBM 2203 PRINTER. UPPERFEED
PRINTKB	IBM 2152 PRINTER-KEYBOARD USED AS I/O DEVICE
INQIPT	IBM 2152 PRINTER-KEYBOARD USED AS AN INQUIRY DEVICE
CRP20	IBM 2520 A1, CARD READ/PUNCH
MFCM1	IBM 2560 MFCM. HOPPER I
MFCM2	IBM 2560 MFCM, HOPPER 2
TAPE	IBM 2415 TAPE
DISK	IBM 2310 DISK or IBM 1131 INTERNALDISK
DISK11	IBM 231 I DISK STORAGE DRIVE
DISK11F	IBM 231 I DISK. MODEL II or I2
DISK14	IBM 2314 DIRECT ACCESS STORAGE FACILITY
CEL01	IBM 2321 DATA CELL DRIVE W/MASTER AND CYLINDER INDICES (MI/CI) ON SAME DEVICE AS DATA FILE
CEL0111	IBM 2321 DATA CELL DRIVE WITH MI/CI ON IBM 2311 DISK STORAGE DRIVE
CEL0114	IBM 2321 DATA CELL DRIVE WITH MI/CI ON AN IBM 2314 DIRECT ACCESS STORAGE FACILITY
BSCA	BSC TELECOMMUNICATIONS DEVICE
IBM SYSTEM/3	
MFCU1	PRIMARY HOPPER OF THE MFCU
MFCU2	SECONDARY HOPPER OF THE MFCU
PRINTER	PRINTER. IF THE PRINTER HAS THE DUALCARRIAGE FEATURE, THIS ENTRY REFERS TO THE LEFT CARRIAGE
PRINTR2	RIGHT CARRIAGE OF THE PRINTER. THIS ENTRY

	APPLIES ONLY TO PRINTERS THAT HAVE THE DUAL CARRIAGE FEATURE
CONSOLE	PRINTER-KEYBOARD
DISK	DISK UNIT

RCA SPECTRA 70

DISK64	DIRECTACCESS STORAGE DEVICE
PUNCH34	MODEL 234CARD PUNCH
PUNCH36	MODEL 236 CARD PUNCH
DRUM65	70/565 DRUM MEMORY UNIT
M ASS68	70/568 MASS STORAGF UNIT
PRINTER	PRINTER
TAPE	MAGNETIC TAPE
READER	CARD READER

UNIVAC 9000 SERIES

CCPRI	1001 CARD CON I ROLLER, PRIMARY FEED
CCSEC	1001 CARD CONTROLLER, SECONDARY FIELD
READER	CARD READER
PUNCH	COLUMN PUNCH
CRP	COLUMN READ/PUNCH
ROWPNCH	ROW PUNCH
RRP	ROW READ/PUNCH
PRINT63	PRINTER-63 CHARACTERS
PRINT16	PRINTER--16CHARACTERS
TAPE	MAGNETIC TAPE-9 or 7 CHANNEL WITH DATA CONVERSION
DISC	84 IO DAS
TAPE7	7 CHANNEL MAGNETIC TAPE WITHOUT DATA CONVERSION

IBM 1130

PRINTER	1132PRINTER
PRINT03	1403 PRINTER
PUNCH42	1442 PUNCH
READ42	1442 READER/PUNCH
READ01	2501 READER
CONSOLE	CONSOLE PRINTER
DISK	2310 DISK UNIT OR 1131 INTERNAL DISK

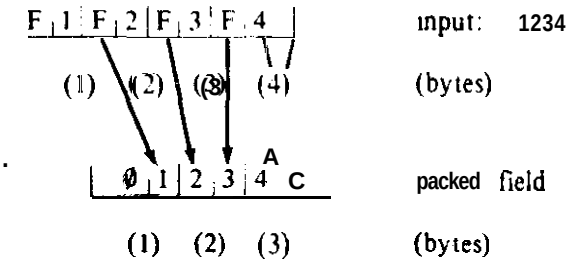
How the Computer Packs Numeric Fields

Packing a 4 byte (even number of bytes) field, using Hexadecimal notation

A 4 'byte field packs into 3 bytes

(4 ÷ 2 = 2; 2 + , = 3)

Sign changes from HEY F to HEX C

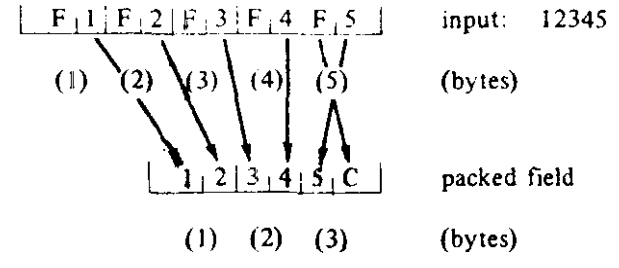


Packing a 5 byte (odd number of bytes) field, using Hexadecimal notation

A 5 byte field packs into 3 bytes

(5 ÷ 2 = 2½; 2½ + ½ = 3)

Sign changes from HEX F to HEX C



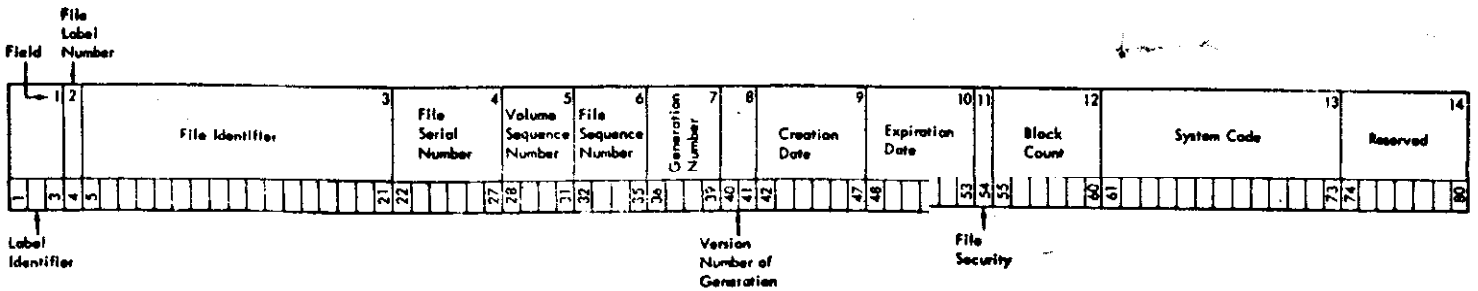
If a packed field is longer than minimum required length, zeros are inserted on the high-order (left) end of the field.

The object program:

- Read an input record that was not defined on the Input Specifications sheet (columns 21-41).
- Found an input record out of the predetermined sequence of card type specified by the entry in *Sequence* (columns 15-16) on the Input Specifications sheet.
- Found an input record out of *sequence* when the entry in *Mathcing Fields* (columns 61-62) on the Input Specifications sheet was used for sequence checking a single input file.
- Encountered a chaining field in the chaining file that does not appear in the chained file during random processing of multiple input files.
- Did not find a record with the correct key at the designated track address during random processing by record key of a directly organized file.
- Did not find the record key that designates the lower limit (obtained from the RAF) during sequential processing between limits of an indexed sequential file.
- Found a wrong length during processing of a indexed-sequential file,
- Found an invalid length record (zero or too long) during random processing by record identification of a file on a DASD.
- Found a difference between the key length of a DASD record in a indexed-sequential file and the length as specified in *Length of Record Address Field* (columns 29-30) on the File Description Specifications sheet during processing with RAF support (random, ADDROUT, or between limits).
- Found a difference between the key length in the chained indexed-sequential file and the length as specified (columns 44-51) on the Input Specifications sheet during chaining of multiple input files.
- Encountered a data check on the DASD during random processing of a directly organized file
- Encountered a DASD error during sequential or random processing of a indexed-sequential file.
- Found the prime data area was filled while creating an indexed-sequential file.
- Found the cylinder and/or master index areas were filled while creating an indexed sequential-file.
- Found a duplicate record when creating or adding to an indexed-sequential file.
- Found a sequence error in record keys when creating an indexed-sequential file.

- Found the overflow area was filled when adding to an indexed-sequential file.

Note: Unless the HO indicator is turned off by a SETOF *operation* **entry on** the Calculation Specifications sheet (see Turning *Indicators* On or *Off)* the program terminates before the next input record is read.



The standard tape file label format and contents are as follows:

FIELD	NAME AND LENGTH	DESCRIPTION
1.	LABEL IDENTIFIER 3 bytes, EBCDIC	identifies the type of label HDR = Header -- beginning of a data file EOF = End of File -- end of a set of data EOV = End of Volume -- end of the physical reel
2.	FILE LABEL NUMBER 1 byte, EBCDIC	always a 1
3.	FILE IDENTIFIER 17 bytes, EBCDIC	uniquely identifies the entire file, may contain only printable characters. Some other systems will not accept embedded blanks in the File Identifier.
4.	FILE SERIAL NUMBER 6 bytes, EBCDIC	uniquely identifies a file/volume relationship. This field is identical to the Volume Serial Number in the volume label of the first or only volume of a no-volume file or a multi-file set. This field will normally be numeric (000001 to 999999) but may contain any six alphameric characters
5.	VOLUME SEQUENCE NUMBER 4 bytes	indicates the order of a volume in a given file or multi-file set. The number must be numeric (0001-9999). Multiple volume files are numbered in consecutive sequence by the OPEN macro on output and checked in like manner on input.
6.	FILE SEQUENCE NUMBER 4 bytes	assigns numeric sequence to a file within a multi-file set.
7.	GENERATION NUMBER 4 bytes	numerically identifies the various editions of the file.
8.	VERSION NUMBER OF GENERATION 2 bytes	Indicates the version of a generation of a file.

FIELD	NAME AND LENGTH	DESCRIPTION
9.	CREATION DATE 6 bytes	indicates the year and the day of the year that the file was created: Position: 1 — Code: blank — Meaning: none Position: 2-3 — Code: 00-99 — Meaning: Year Position: 4-6 — Code: 001-366 — Meaning: Day of Year (e.g., January 31, 1965, would be entered as 65031).
10.	EXPIRATION DATE 6 bytes	indicates the year and the day of the year when the file may become a scratch tape. The format of this field is identical to Field 9. On a multi-file reel, processed sequentially, all files are considered to expire on the same day.
11.	FILE SECURITY 1 byte	indicates security status of the file. 0 = no security protection 1 = security protection. Additional identification of the file is required before it can be processed.
12.	BLOCK COUNT 6 bytes	Indicates the number of data blocks written on the file from the last header label to the first trailer label, exclusive of tape marks. Count does not include checkpoint records. This field is used in trailer labels.
13.	SYSTEM CODE 13 bytes	uniquely identifies the programming system.
14.	RESERVED 7 bytes	Reserved. Should be recorded as blanks.

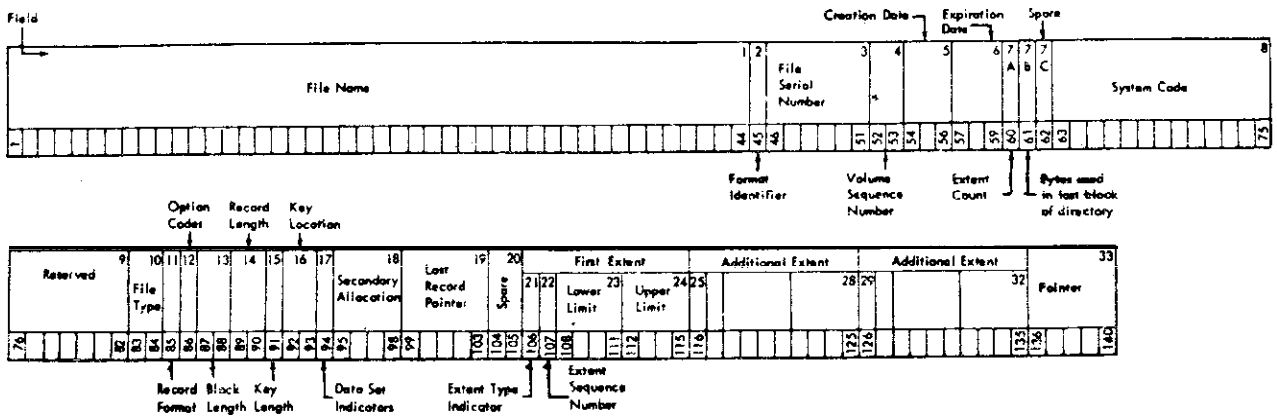


Figure D-2 Standard DASD file labels

Format 1: This format is common to all data files on Direct Access Storage Devices.

FIELD	NAME AND LENGTH	DESCRIPTION
1.	FILE NAME 44 bytes, alphameric EBCDIC	This field serves as the key portion of the file label. Each file must have a unique file name. Duplication of file names will cause retrieval errors. The file name can consist of three sections 1. File ID is an alphameric name assigned by the user and identifies the file. Can be 1-35 bytes if generation and version numbers are used, or 1-44 bytes if they are not used. 2. Generation Number. If used, this field is separated from File ID by a period. It has the format Gnnnn, where G identifies the field as the generation number and nnnn (in decimal) identifies the generation of the file. 3. Version Number of Generation. If used, this section immediately follows the generation number and has the format Vnn, where V identifies the field as the version of generation number and nn (in decimal) identifies the version of generation of the file.

FIELD	NAME AND LENGTH	DESCRIPTION
		Note: The Disk Operating System compares the entire field against the file name given in the DLAB card. The generation and version numbers are treated differently by Operating System/360.
The remaining fields comprise the DATA portion of the file label:		
2.	FORMAT IDENTIFIER 1 byte, EBCDIC numeric	1 = Format 1
3.	FILE SERIAL NUMBER 6 bytes, alphameric EBCDIC	Uniquely identifies a file/volume relationship. It is identical to the Volume Serial Number of the first or only volume of a multivolume file.
4.	VOLUME SEQUENCE NUMBER 2 bytes, binary	Indicates the order of a volume relative to the first volume on which the data file resides.
5.	CREATION DATE 3 bytes, discontinuous binary	Indicates the year and the day of the year the file was created. It is of the form YDD, where Y signifies the year (0-99) and DD the day of the year (1-366).

FIELD	NAME AND LENGTH	DESCRIPTION
6.	EXPIRATION DATE 3 bytes, discontinuous binary	Indicates the year and the day of the year the file may be deleted. The form of this field is identical to that of Field 5.
7A.	EXTENT COUNT 1 byte	Contains a count of the number of extents for this file on this volume. If user labels are used, the count does not include the user label track. This field is maintained by the Disk Operating System programs.
7B.	BYTES USED IN LAST BLOCK OF DIRECTORY 1 byte, binary	Used by O/S.
7C.	SPARE 1 byte	Reserved
8.	SYSTEM CODE 13 bytes	Uniquely identifies the programming system. The character codes that can be used in this field are limited to 0-9, A-Z, or blanks.
9.	RESERVED 7 bytes	Reserved
10.	FILE TYPE 2 bytes	The contents of this field uniquely identify the type of data file Hex 4000 = Consecutive organization Hex 2000 = Direct-access organizatic Hex 8000 = Indexed-sequential orgar zation Hex 0200 = Library organization Hex 0000 = Organization not definedn the file label.
11.	RECORD FORMAT 1 byte	Used by O/S.

FIELD	NAME AND LENGTH	DESCRIPTION
12.	OPTION CODES 1 byte	Bits within this field indicate various options used in building the file. Bit 0 = 0 1 = Reserved 2 = Master index present (ISFMS) 3 = Independent overflow present (ISFMS) 4 = Cylinder overflow present (ISFMS) 5 = Reserved 6 Used by O/S. 7 Used by O/S.
13.	BLOCK LENGTH 2 bytes, binary	Indicates the block length for fixed length records or maximum block size for variable length blocks.
14.	RECORD LENGTH 2 bytes, binary	Indicates the record length for fixed length records or the maximum record length for variable length records.
15.	KEY LENGTH 1 byte, binary	Indicates the length of the key portion of the data records in the file.
16.	KEY LOCATION 2 bytes, binary	Indicates the high order position of the data record
17.	DATA SET INDICATORS 1 byte	Bits within this field are used to indicate the following: Bit 0 If on, indicates that this is the last volume on which this file normally resides. 1-7: 0 for DOS Used by O/S.
18.	SECONDARY ALLOCATION 4 bytes, binary	Used by O/S.
19.	LAST RECORD POINTER 5 bytes, discontinuous binary	Used by O/S.

FIELD	NAME AND LENGTH	DESCRIPTION
20.	SPARE 2 bytes	Reserved
21.	EXTENT TYPE INDICATOR 1 byte	Indicates the type of extent with which the following fields are associated: HEX CODE 00 Next three fields do not indicate any extent. 01 Prime data area (Indexed Sequential); or Consecutive area, etc., (i.e., the extent containing the user's data records.) 02 Overflow area of an Indexed Sequential file. 04 Cylinder index or master index area of an Indexed Sequential file. 40 User label track area. 80 Shared cylinder indicator.
22.	EXTENT SEQUENCE NUMBER 1 byte, binary	Indicates the extent sequence in a multi-extent file.
23.	LOWER LIMIT 4 bytes, discontinuous binary	The cylinder and the track address specifying the starting point (lower limit) of this extent component. This field has the format CCHH.
24.	UPPER LIMIT 4 bytes	The cylinder and the track address specifying the ending point (upper limit) of this extent component. This field has the format CCHH.
25-28.	ADDITIONAL EXTENT 10 bytes	These fields have the same format as the fields 21 - 24 above.
29-32.	ADDITIONAL EXTENT 10 bytes	These fields have the same format as the fields 21 - 24 above.
33.	POINTER TO NEXT FILE LABEL WITHIN THIS LABEL SET 5 bytes, discontinuous binary	The address (format CCHHR) of a continuation label if needed to further describe the file. If field 10 indicates Indexed Sequential organization, this field points to a Format 2 file label within this label set. Otherwise, it points to a Format 3 file label, and then only if the file contains more than three extent segments. This field contains all binary zeros if no additional file label is pointed to.