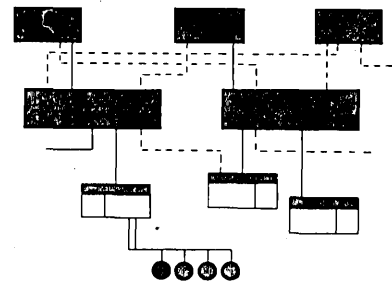


GE-625/635 GEFRC Implementation

S SYSTEM S SUPPORT I INFORMATION



ABSTRACT

This document describes the Generalized File and Record Control (GEFRC) subroutines available for use on any GE-625/635 configuration handling input and output media.

GENERAL  ELECTRIC

**GE-625/635
GEFRC
IMPLEMENTATION**

July 1965

GENERAL  ELECTRIC
COMPUTER DEPARTMENT

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PREFACE

The Generalized File and Record Control (GEFRC) system has been implemented as a set of over 40 subroutines. Approximately half of them represent the routines called directly by the user, and the other half are called internally and perform common and special functions required within the system.

This document describes all of the subroutines which comprise the GEFRC system. Arranged alphabetically by subroutine name, the following is given for each subroutine:

1. Subroutine name
2. Alternate names for the same subroutine
3. The form and content of the calling sequence
4. A brief description of the function performed
5. The names of other subroutines which call the routine being described
6. The names of other subroutines which are called by the routine being described
7. The size of the subroutine
8. A flow diagram indicating in general how the functions are performed, unless the description in item 4 is sufficient.

The following three abbreviations appear frequently within the flow charts:

CRX - The current record index. This represents the value found in bits 0-17 of word 0 of the file control block. This value gives the location of the first data word in the logical record last accessed in that file.

TEMP - The contents of bits 0-17 of word +3 of the file control block. For input files, this value is the location of the last word of the physical record being processed plus one. For output files, it gives the number of words within the current buffer which have not as yet been assigned.

BCW - The buffer control word. This is the first word of the current buffer and it is the extra word provided in addition to the specified block size. While transmission is taking place to

This is a special part of the beginning of the next block size.

BCW - or from the buffer, the BCW contains the data control word (Cont.) (DCW) which controls the transmission. While the data is being processed in an input file, the BCW contains the location of the last word of the last accessed logical record plus one. While the buffer of an output file is being filled, the BCW contains the number of words which have already been assigned in that buffer.

The list below shows the order in which the GEFRC subroutines should be included in the system library for optimum loading.

.GSTIN	.GPNCH	.GRLSE
.GSTOT	.GEPRN	.GPUT, .GPTBK, .GCOPY
.GFRCE	.GPRNT	.GGET, .GGTBK
.GBSRC	.GIOPG	.GR250
.GFSRC	.GRDRC	.GOPEN
.GBSFM	.GALTR	.GCLSE
.GFSFM	.GCMDK	.GR200
.GRWND	.GRDCD	.GR225
.GWEF	.GWTRC	.GR275
.GWAIT	.GILLB	.GR375, .GR390
.GPTSZ	.GBCD	.GR960, .GR980
.GWRIT	.GBNRY	.GR990
.GREAD	.GEDIT	.GINHD, .GINTL, .GOUTH, .GOUTL, .GUSWH

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Name: .GALTR

Alternate Names: None

Calling Sequence: CALL .GALTR (fcb)

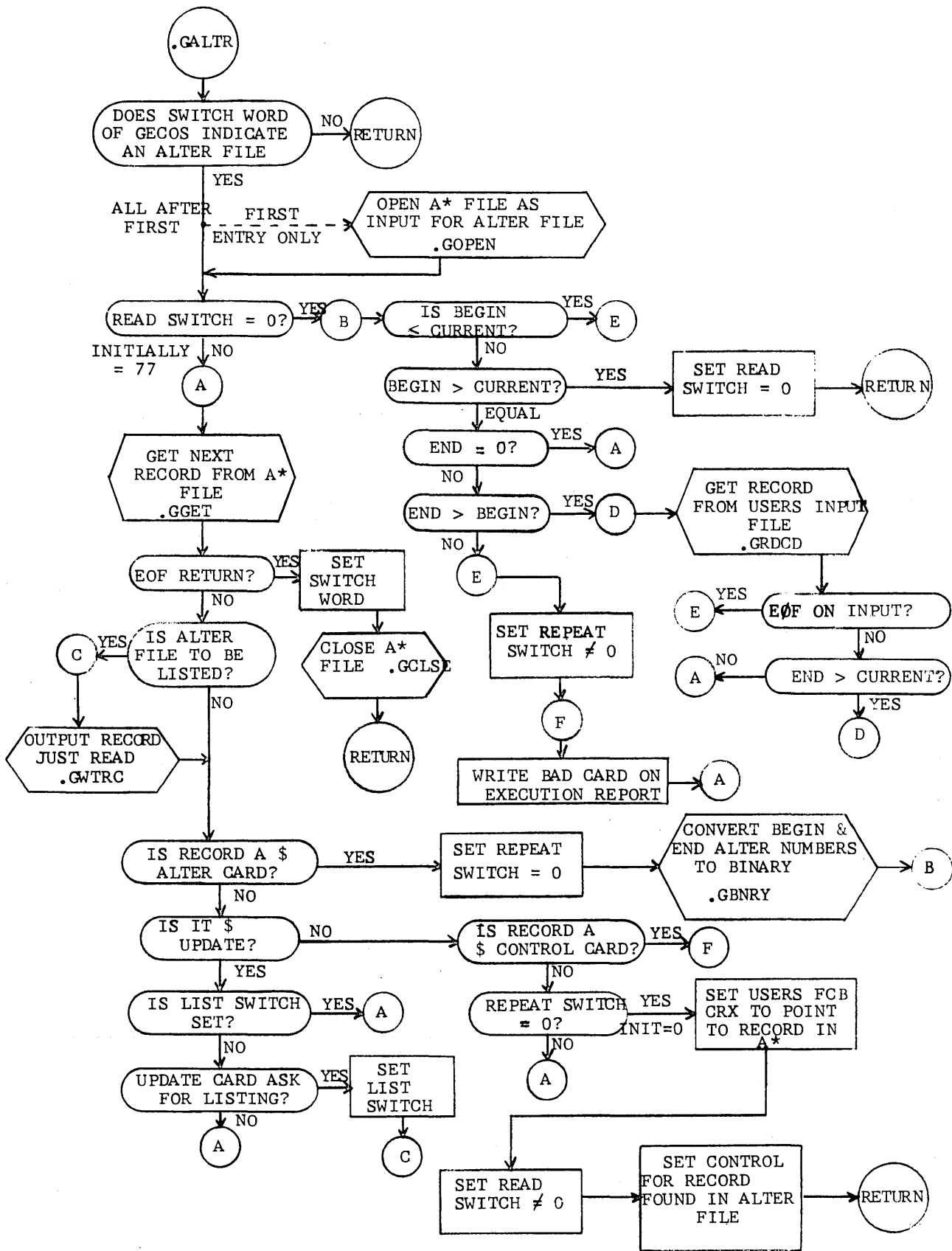
fcb = location of file control block

Function: To obtain the next logical record for the designated file from either the Alter file (A*) or from the users input file, if an Alter file exists.

Called By: .GRDRC

Calls For: .GOPEN, .GGET, .GWTRC, .GRDCD, .GBNRY, .GCLSE;
references .GEDIT

Number of Words: 528 including A* file control block and buffer



Name: .GBCD

Alternate Names: None

Calling Sequence: CALL .GBCD

with binary number in the A register right justified. Return with the BCD equivalent right adjusted in the combined AQ registers.

Function: To convert a binary integer to its BCD equivalent. The value of the integer should not exceed ten decimal digits.

Called By: .GILLB, .GIOPG

Calls For: None

Number of Words: 26

Name: .GBNRY

Alternate Names: None

Calling Sequence: CALL .GBNRY
with BCD value right justified in the combined
AQ registers. Return with the equivalent binary
integer right justified in the Q register.

Function: To convert the BCD representation of an integer to its
binary equivalent. The value of the integer should not
exceed ten decimal digits.

Called By: .GILLB, .GALTR, .GIOPG

Calls For: None

Number of Words: 18

Name: .GBSFM

Alternate Names: BSTFM, .GABSF

Calling Sequence: CALL BSTFM (fcb, n)

fcb = location of file control block

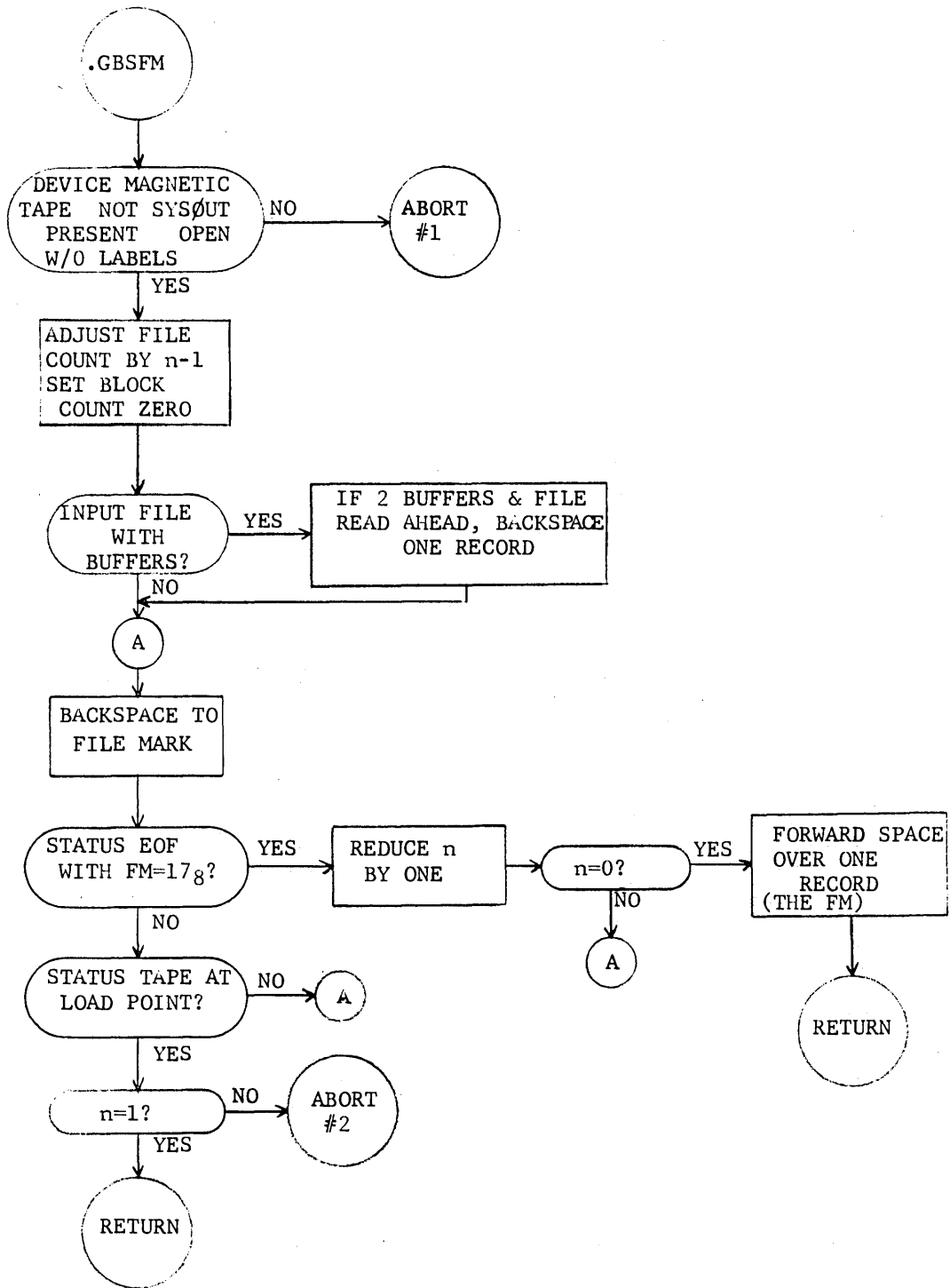
n = number of files

Function: To backspace an unlabeled magnetic tape file to a position immediately following the n^{th} preceding standard end-of-file (FM=178).

Called By: User

Calls For: .GR960

Number of Words: 80



Name: .GBSRC

Alternate Names: BSREC, .GABSR

Calling Sequence: CALL BSREC (fcb, n, eof)

fcb = location of file control block

n = number of records

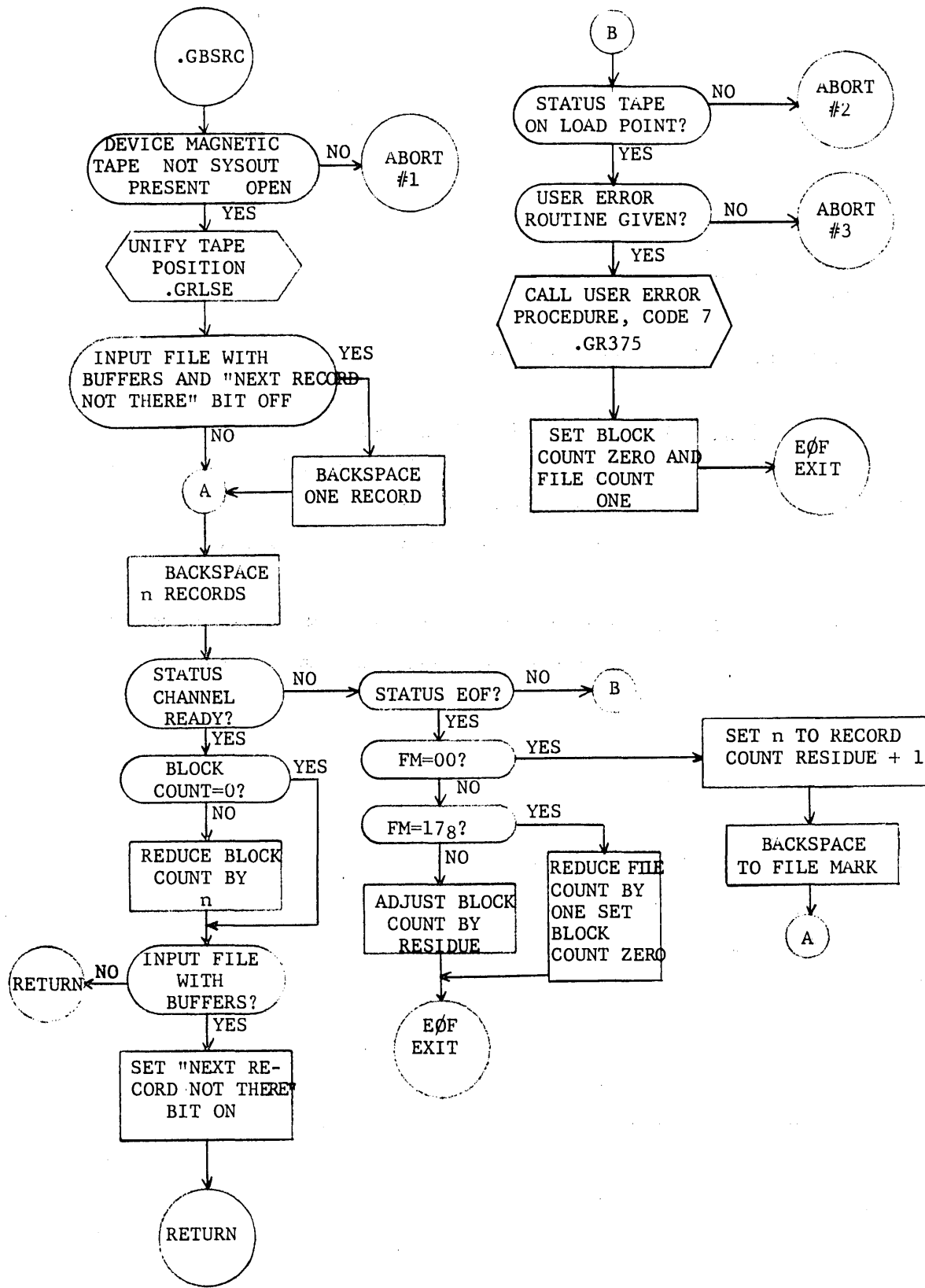
eof = location of end-of-file routine

Function: To space over the n last accessed physical records on the designated magnetic tape file in a backward direction.

Called By: User

Calls For: .GRLSE, .GR375, .GR960

Number of Words: 126



Name: .GCLSE

Alternate Names: CLOSE, .GACLS

Calling Sequence: CALL CLOSE (list, n)

list = location of first of n consecutive file
designator words for the files to be
closed.

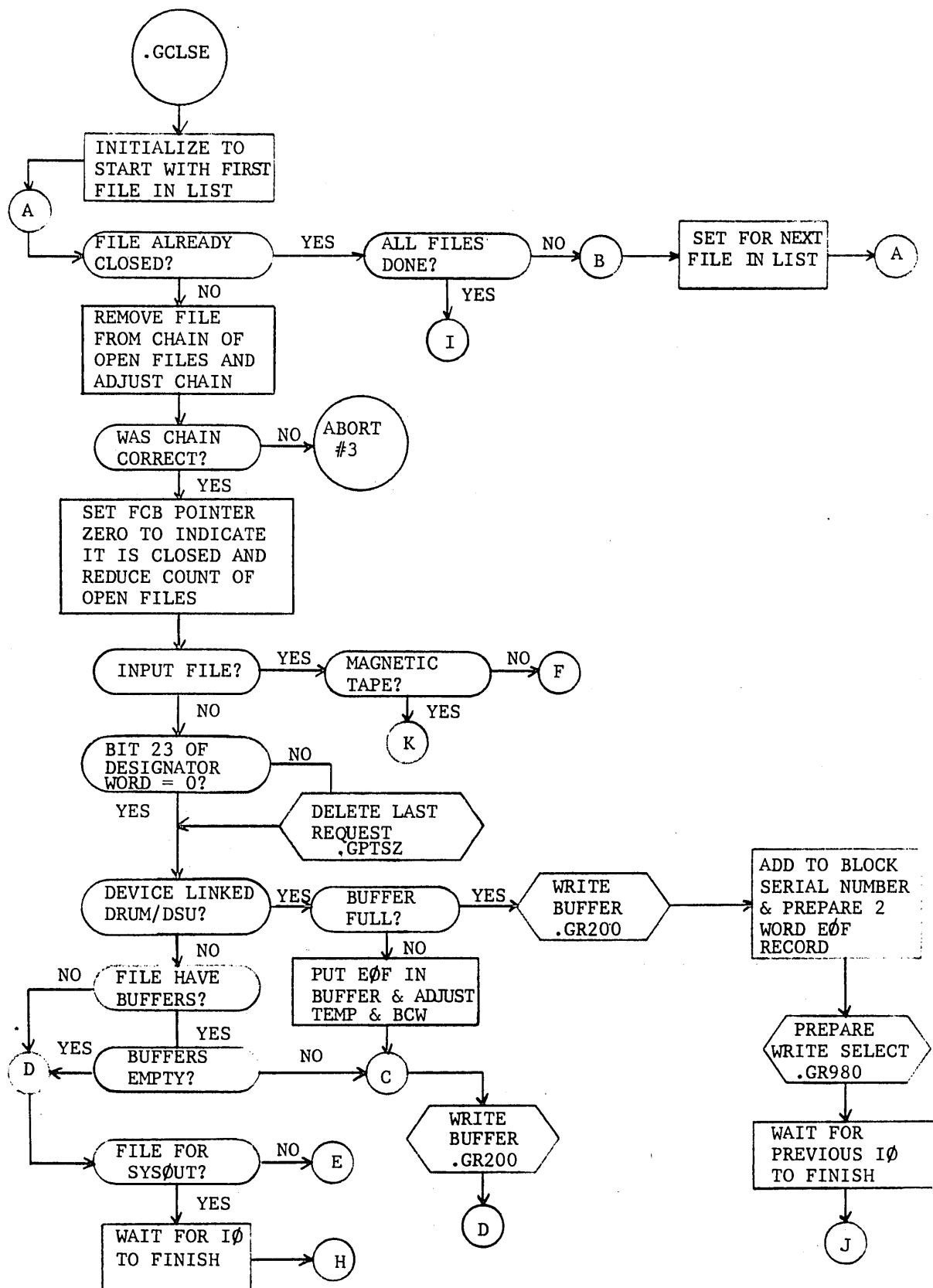
n = number of files to be closed.

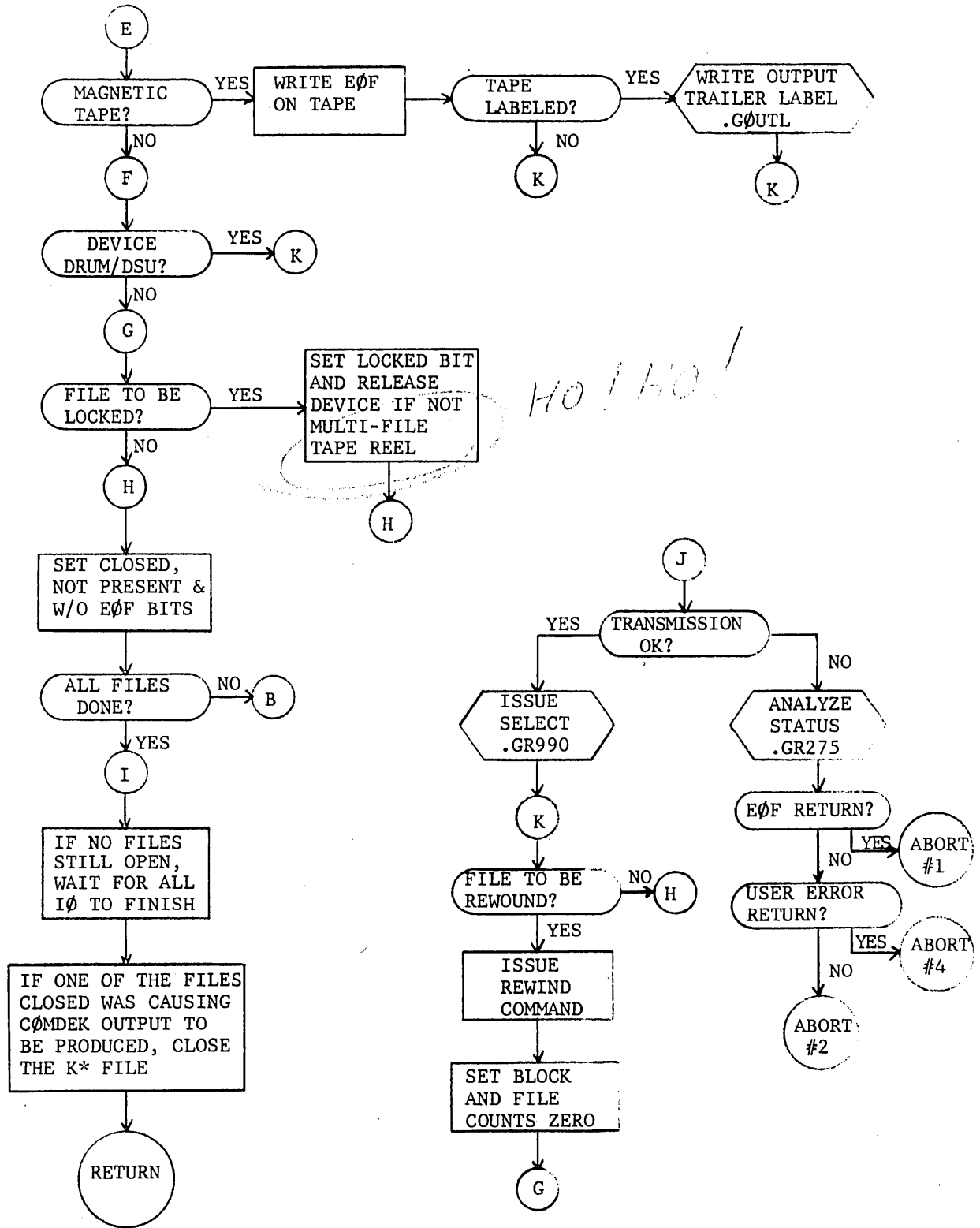
Function: To disconnect (close) files when no further activities
are to be performed on them.

Called By: User, .GCMDK, .GALTR

Calls For: .GR200, .GR275, .GR960, .GR980, .GR990, .GOUTL;
.GPTSZ if so initialized.

Number of Words: 238





Name: .GCMDK

Alternate Names: None

Calling Sequence: CALL .GCMDK (fcb)

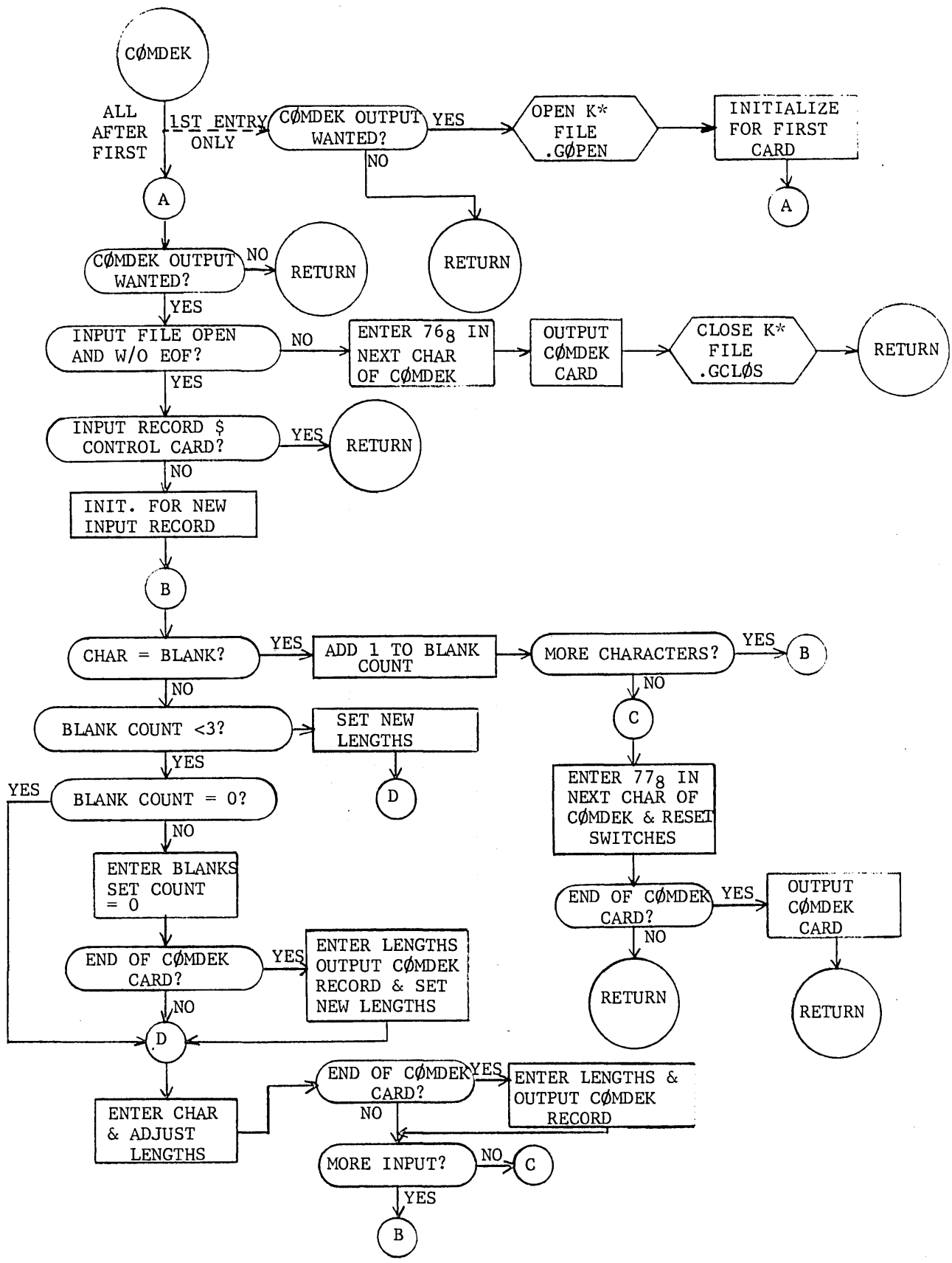
fcb = Location of file control block

Function: To compress the current logical record of the designated file into the COMDEK format if so indicated in the appropriate position of the GECOS switch word. The compressed record is inserted in the K* file which is also opened and closed by this routine.

Called By: .GRDRC

Calls For: .GOPEN, .GCLSE, .GILLB, .GWTRC; references .GEDIT

Number of Words: 618 including K* file control block and buffer



Name: .GCOPY

Alternate Names: COPY, .GACOP

Calling Sequence: CALL COPY (fcbo~out, fcbo~in)

fcbo~out = location of file control block of the
output file

fcbo~in = location of file control block of the
input file

Function: To move the last accessed logical input record from
the designated input file to the next available position
in the designated output file.

Called By: User

Calls For: .GCOPY is a separate entry to .GPUT

Name: .GEDIT

Alternate Names: IOEDIT, .GAEDI

Calling Sequence: CALL IOEDIT (list, n)

list = location of first entry in a list of
control parameters.

n = number of entries in the list.

A list entry has the form ZERO control, code
where control is the location of a parameter and
code indicates the type of parameter.

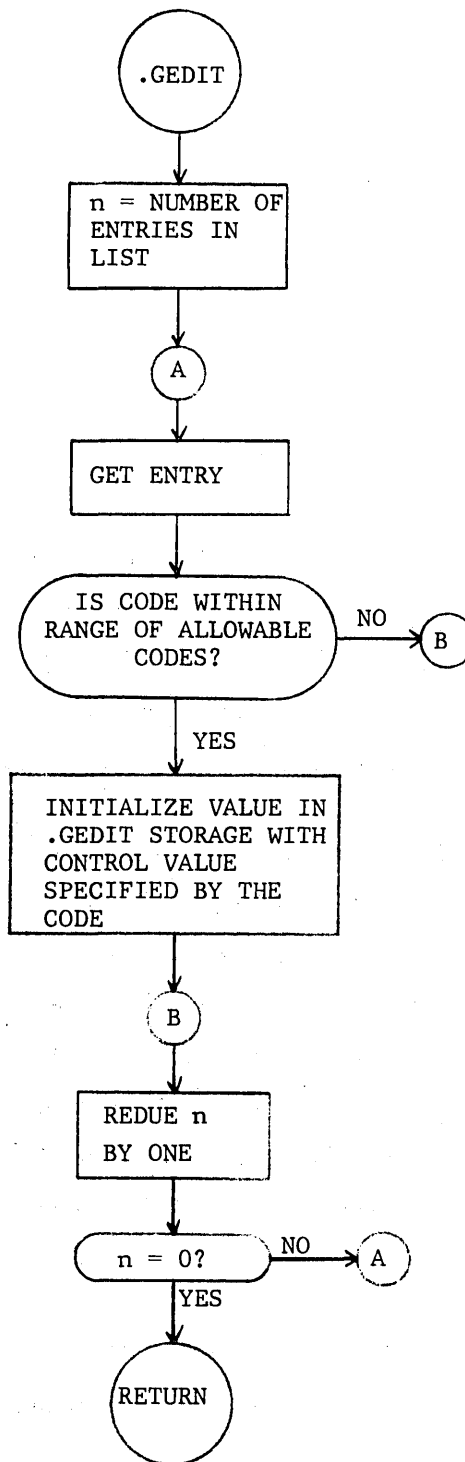
Function: To initialize the edit functions such as PRINT and PUNCH
with parameters which do not usually vary with each
call for these routines. These parameters are (in order
of their code numbers): 1) first heading line for
PRINT, 2) second heading line for PRINT, 3) label for
PUNCH, 4) label for COMDEK output, 5) first page
number for PRINT, 6) location of P* file control block
for reporting errors, and 7) report code for PRINT.

Called By: User

Referenced by: .GALTR, .GCMDK, .GILLB, .GIOPG, .GPNCH, .GPRNT

Calls For: None

Number of Words: 60



Name: .GEPRN

Alternate Names: EPRINT

Calling Sequence: CALL EPRINT (fcb, image, slew, n)

fcb = location of file control block

image = location of first word of line image

slew = location of word containing slewing
information in bits 30-35

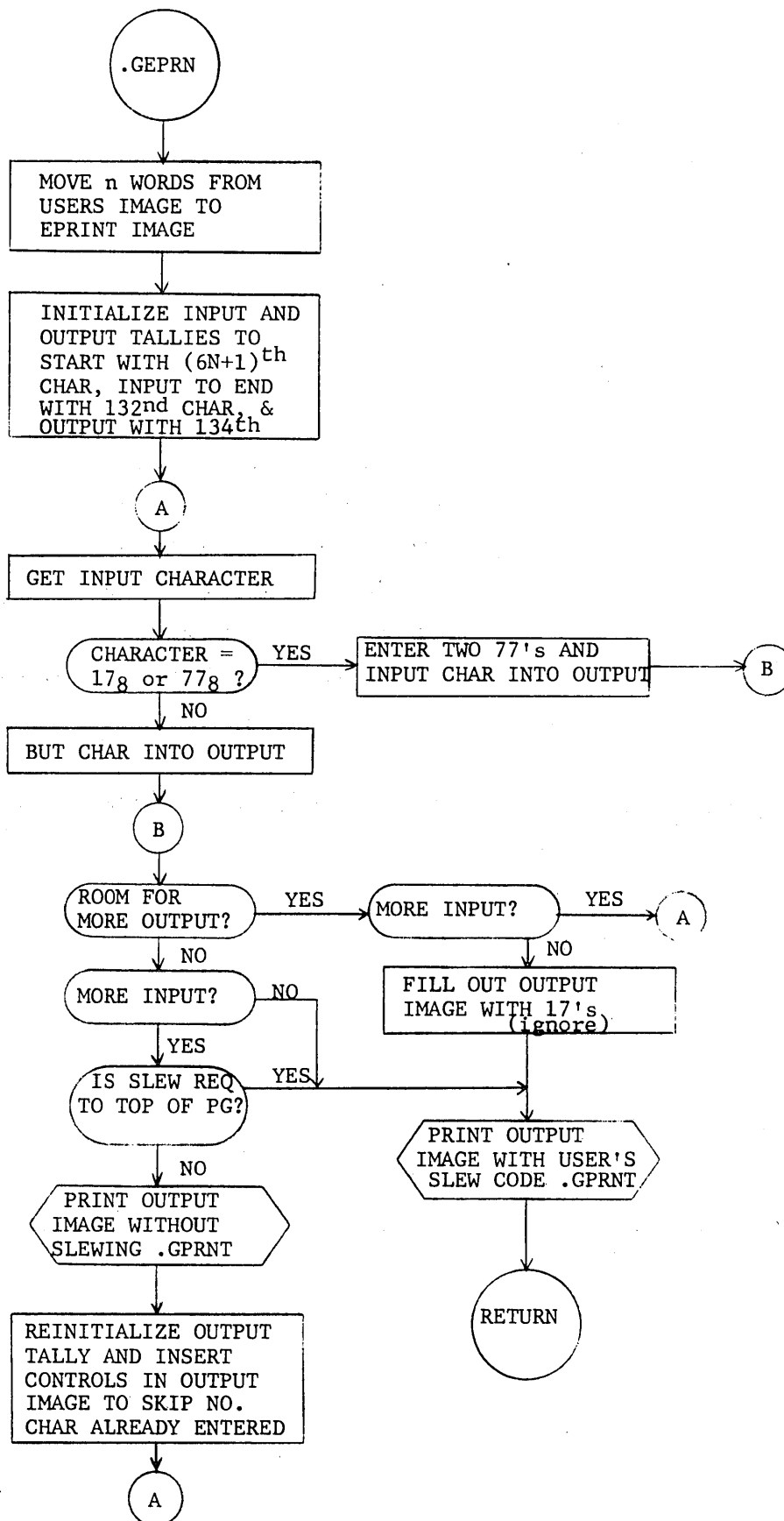
n = number of initial words in image which do
not require editing.

Function: To edit a print line image prior to writing via the
PRINT routine.

Called By: User

Calls For: .GPRNT

Number of Words: 160



Name: .GFRCE

Alternate Names: FORCE, .GAFRC

Calling Sequence: CALL FORCE (fcb)

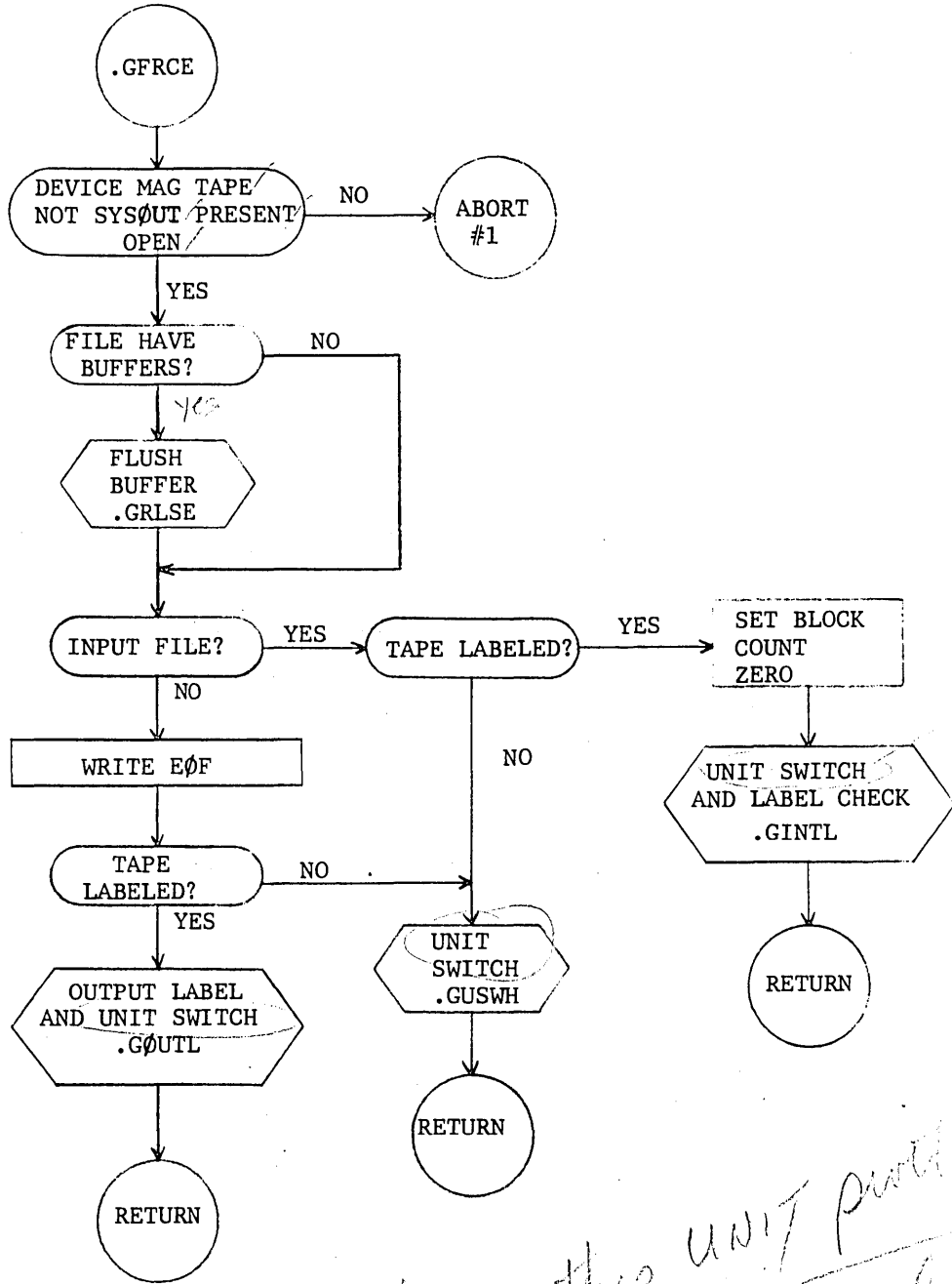
fcb = location of file control block

Function: To force an end-of-reel condition on a magnetic tape file.

Called By: User

Calls For: .GINTL, .GOUTL, .GRLSE, .GUSWH, .GR960

Number of Words: 56



*What is this UNIT switch?
only if multi-real tape file*

Name: .GFSEFM

Alternate Names: FSTFM, .GAFSF

Calling Sequence: CALL FSTFM (fcb, n)

fcb = location of file control block

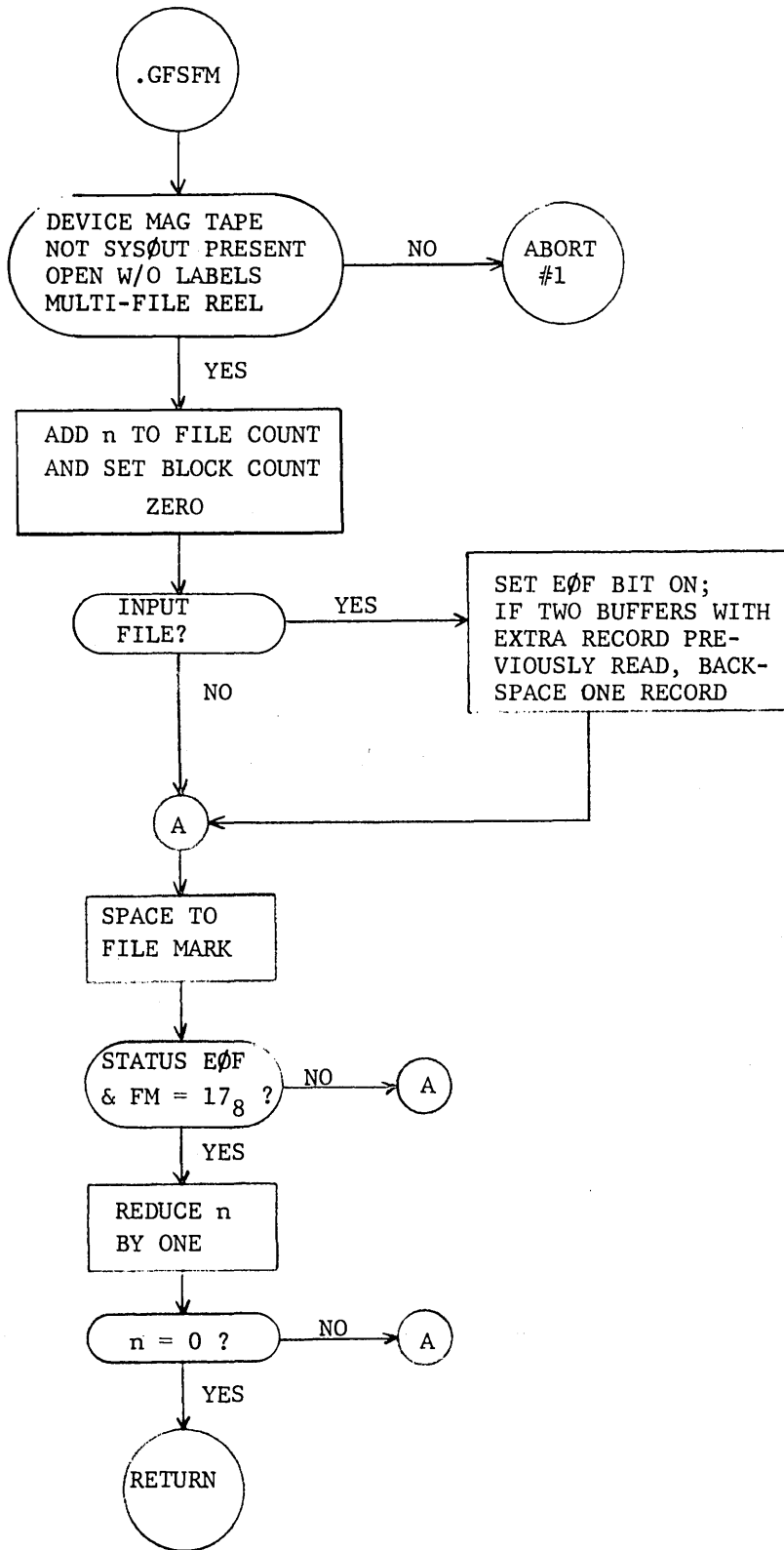
n = number of files

Function: To forward space an unlabeled multi-file magnetic tape file to a position immediately following the nth succeeding standard end-of-file (FM=178).

Called By: User

Calls For: .GR960

Number of Words: 60



Name: .GFSRC

Alternate Names: FSREC, .GAFSR

Calling Sequence: CALL FSREC (fcb, n, eof)

fcb = location of file control block

n = number of records

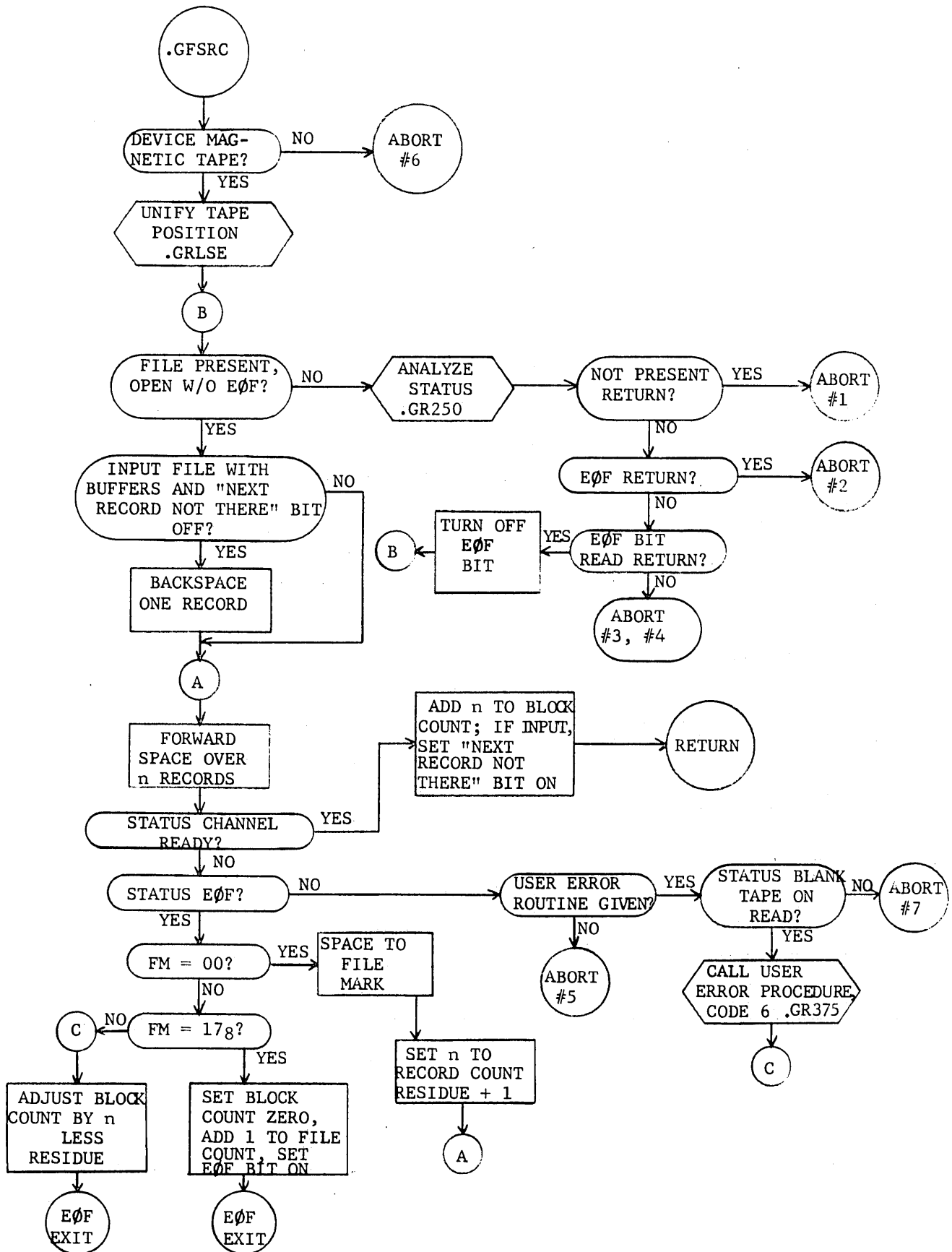
eof = location of end-of-file routine

Function: To space over the next n physical records on the
designated magnetic tape file in a forward direction.

Called By: User

Calls For: .GRLSE, .GR250, .GR275, .GR375, .GR960

Number of Words: 150



Name: .GGET

Alternate Names: GET, .GAGET

Calling Sequence: CALL GET (fcb, eof, stor)

fcb = location of file control block

eof = location of end-of-file routine

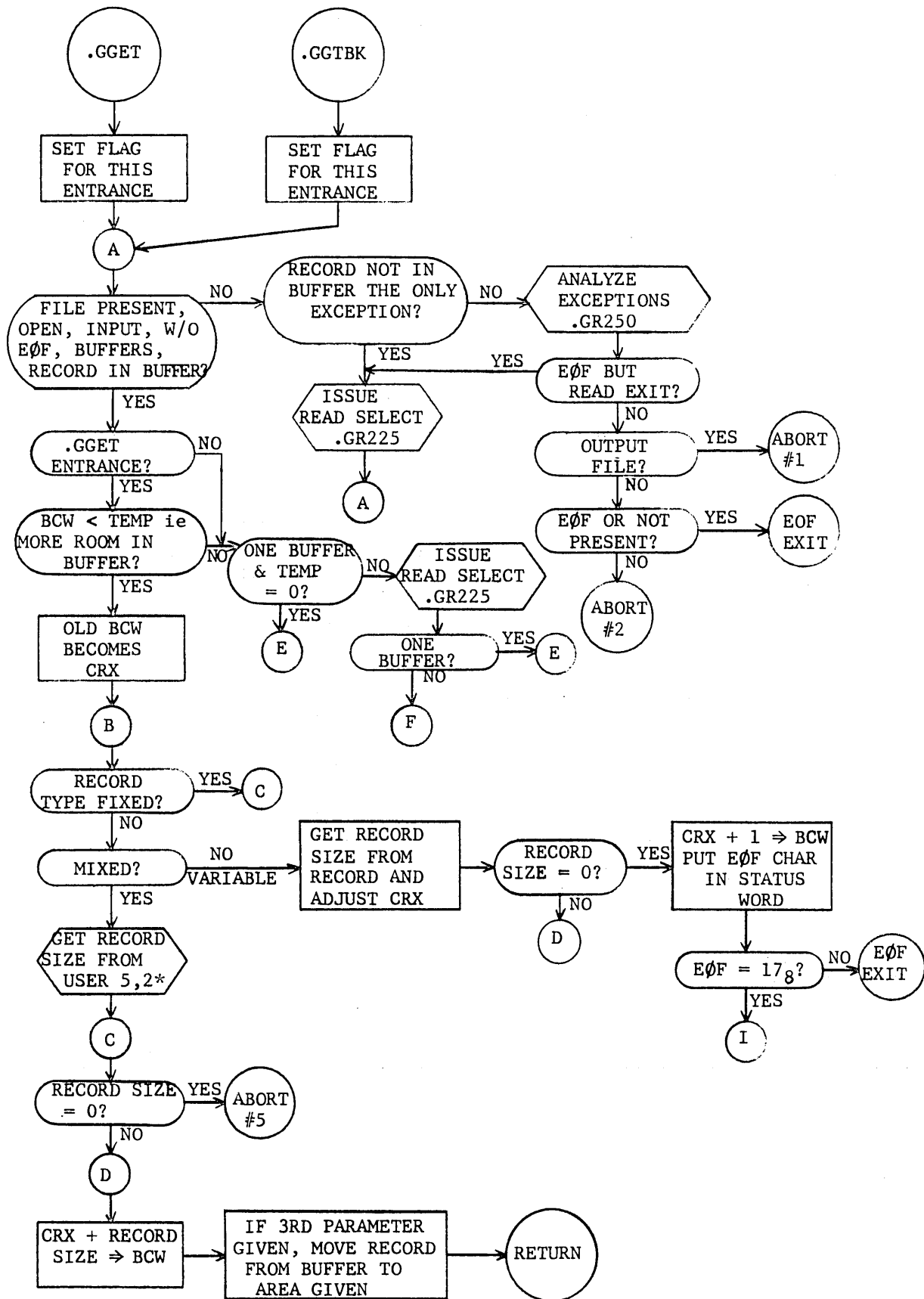
stor = location of first word of area to which
the record is to be moved

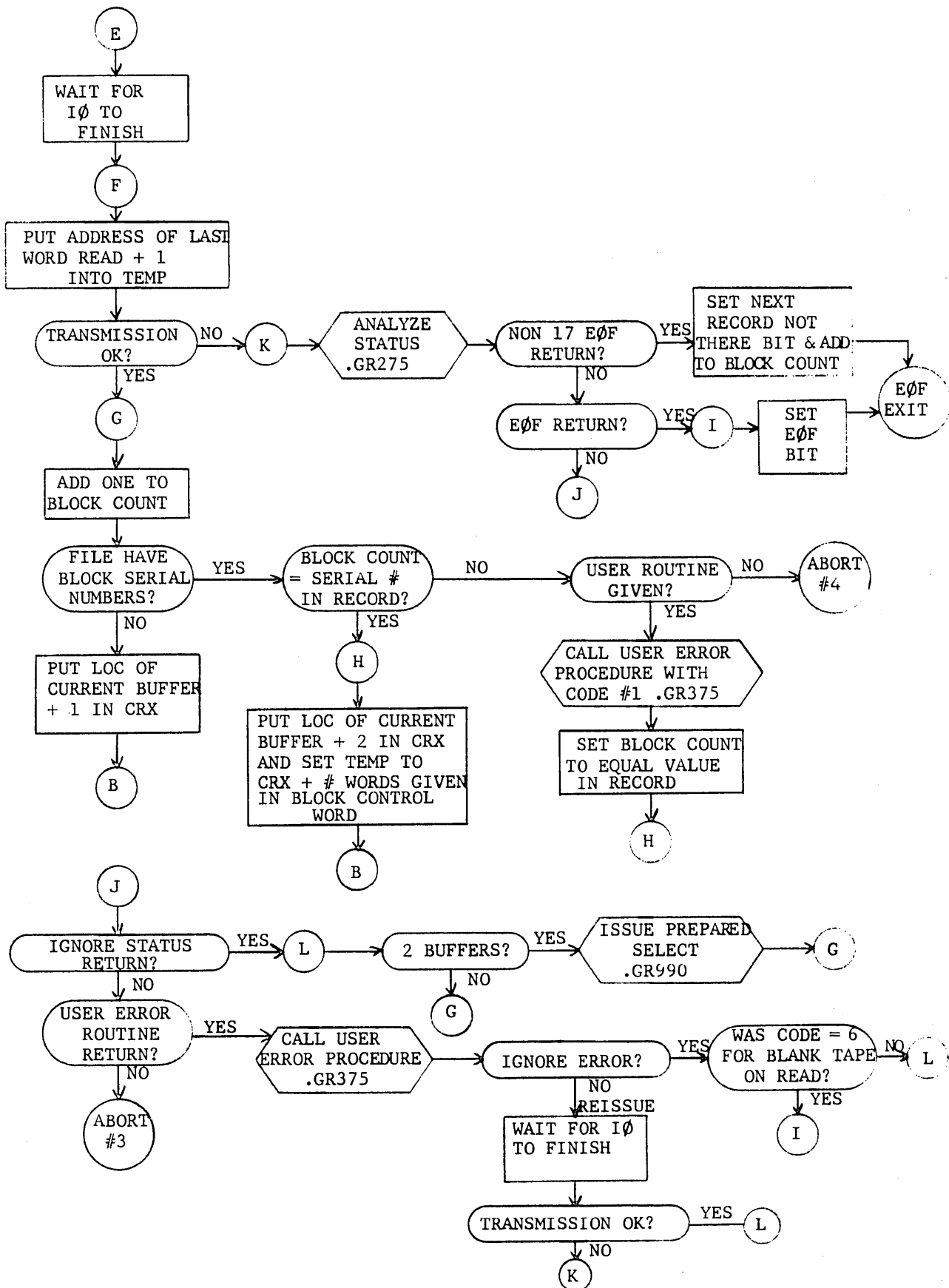
Function: To obtain the next logical input record from the
designated input file and, if desired, move that
logical record to a working area.

Called By: User, .GALTR, .GRDCD

Calls For: .GR225, .GR250, .GR275, .GR375, .GR960, .GR990

Number of Words: 218





Name: .GGTBK

Alternate Names: GETBK, .GAGTB

Calling Sequence: CALL GETBK (fcb, eof, stor)

fcb = location of file control block

eof = location of end-of-file routine

stor = location of first word of area to which
the record is to be moved.

Function: To obtain the first logical record in the next
physical record from the designated input file and,
if desired, move that logical record to a working area.

Called By: User

Calls For: .GGTBK is a separate entry to .GGET

Name: .GILLB

Alternate Names: None

Calling Sequence: CALL .GILLB (kind, request, label)

kind = location of word indicating type of
card to be labeled--zero, column binary;
non-zero, Hollerith

request = 0 if request is from .GCMDK routine,
1 if request from .GPNCH routine

label = location of the first word of the
label area

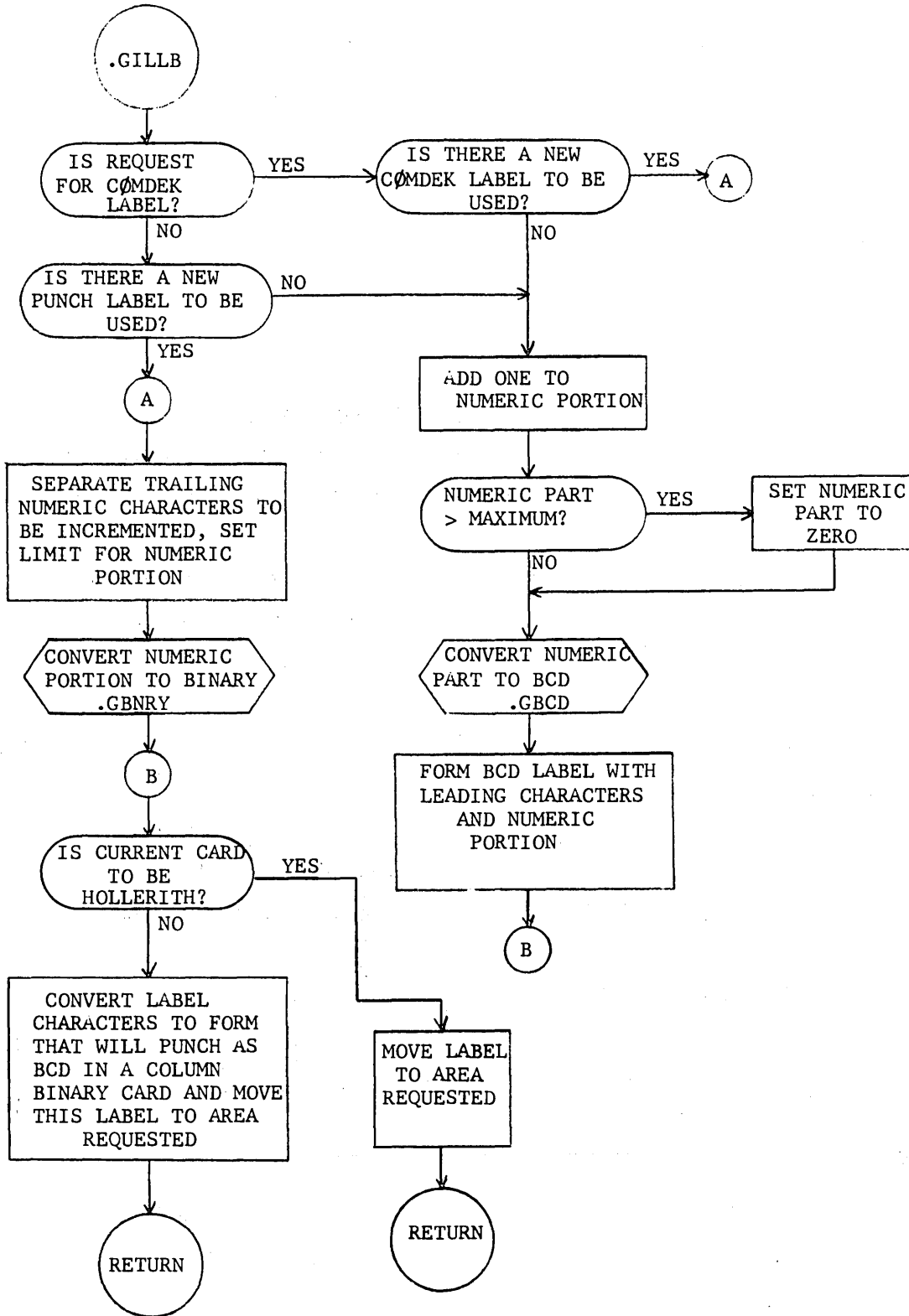
Function:

To produce a sequenced label for punched card output
such that it will appear to be a Hollerith label in
columns 73-80 regardless of the type of card produced.

Called By: .GCMDK, .GPNCH

Calls For: .GBCD, .GBNRY; references .GEDIT

Number of Words: 208



Name: .GINHD

Alternate Names: None

Calling Sequence: CALL .GINHD

XR2 contains the location of the file control
block

Function: To check the header label on a labeled input tape file.

Called By: .GOPEN

Note: See "Label Checking and Unit Switching"

Name: .GINTL

Alternate Names: None

Calling Sequence: CALL .GINTL

XR2 contains the location of the file control
block

Function: To read and check the trailer label on a labeled input
tape file.

Called By: .GFRCE, .GR275

Note: See "Label Checking and Unit Switching"

Name: .GIOPG

Alternate Names: None

Calling Sequence: CALL .GIOPG (word)

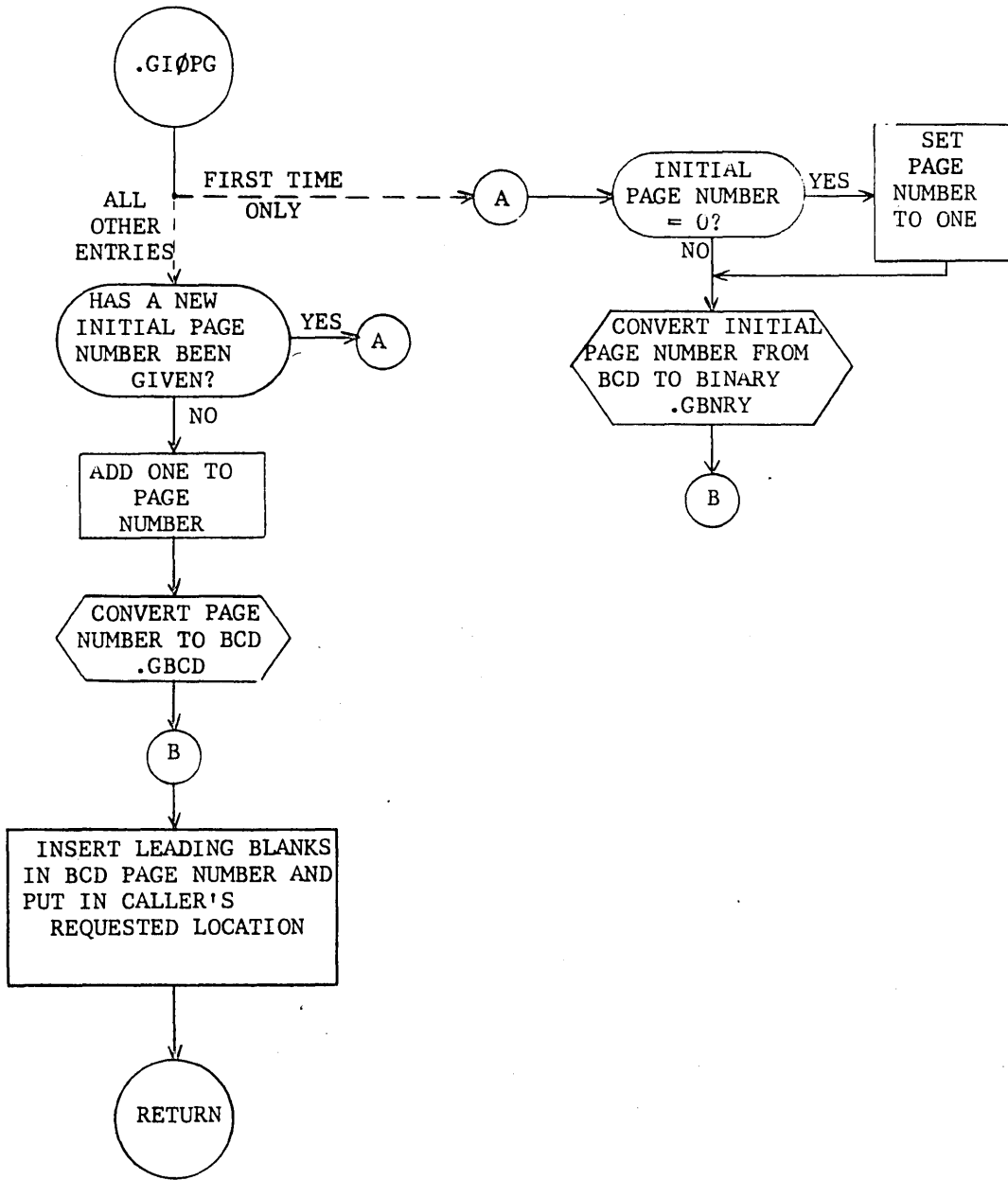
word = location of word in which the new page
number is to be placed

Function: To increment the page number used by the PRINT routine
and to supply the updated page number in BCD form.

Called By: .GPRNT

Calls For: .GBCD, .GBNRY; references .GEDIT

Number of Words: 52



Name: .GOPEN

Alternate Names: OPEN

Calling Sequence: CALL OPEN (list, n)

list = location of first of n consecutive file
designator words for the files to be
opened.

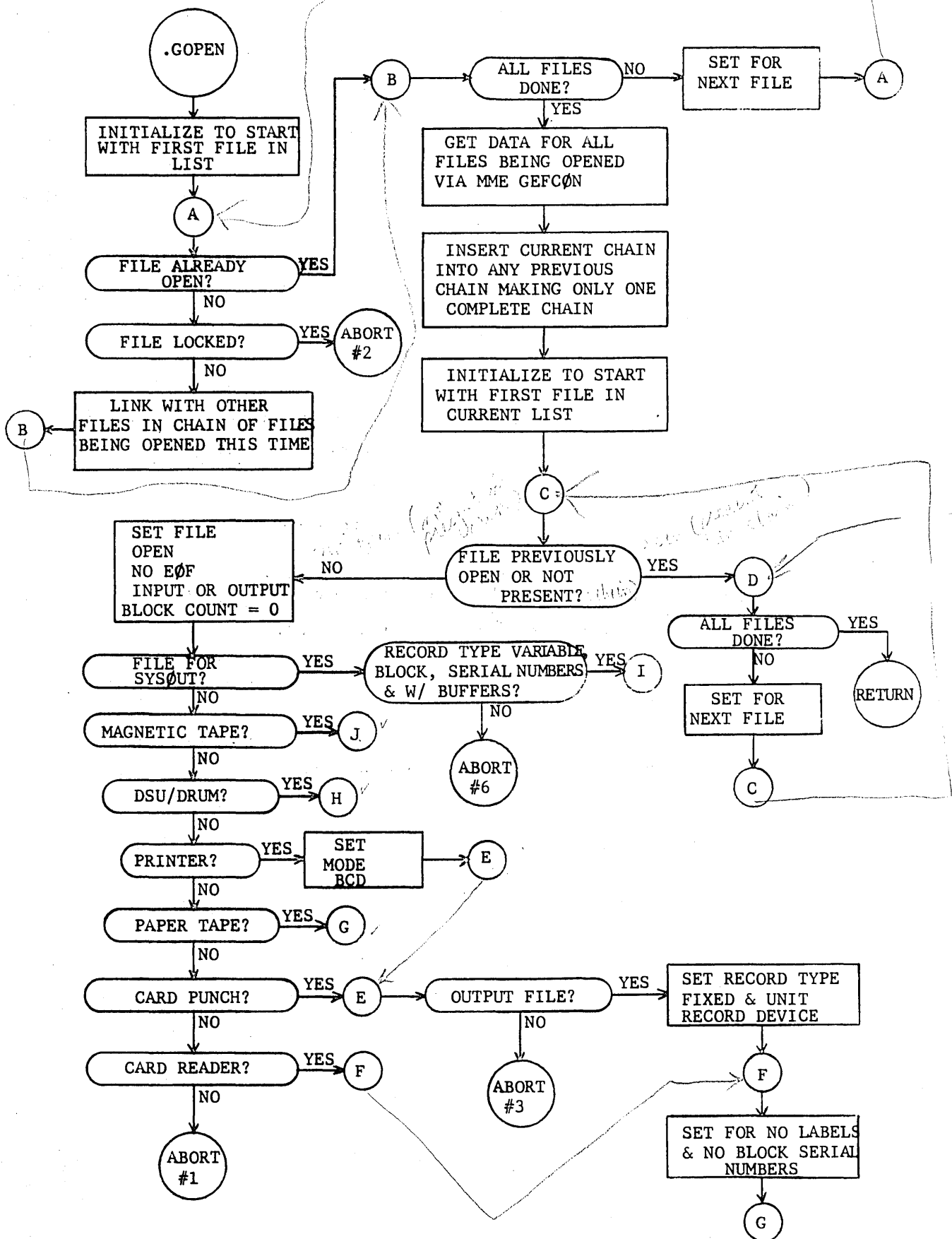
n = number of files to be opened.

Function: To initialize (open) files such that they may be
properly accessed by other GEFRC functions.

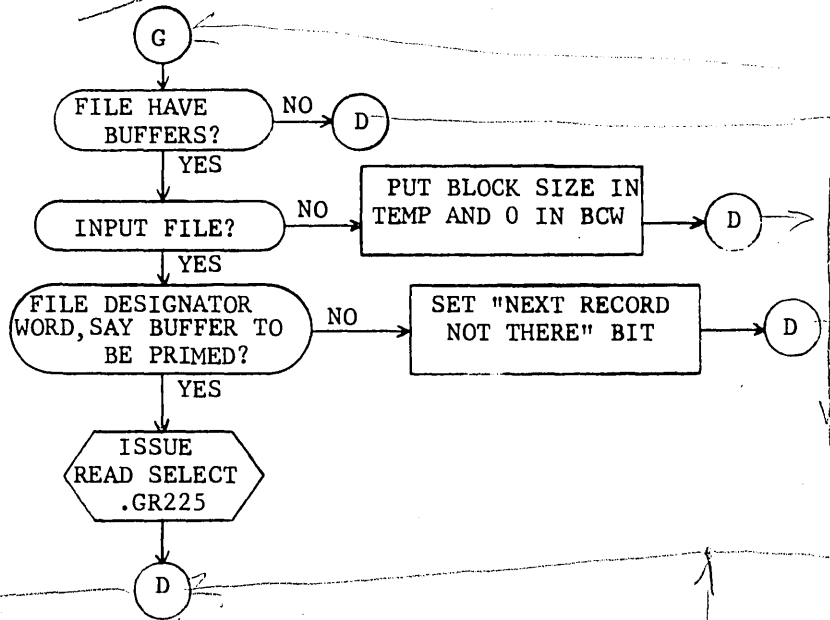
Called By: User, .GCMDK, .GALTR

Calls For: .GR225, .GR960, .GINHD, .GOUTH

Number of Words: 306

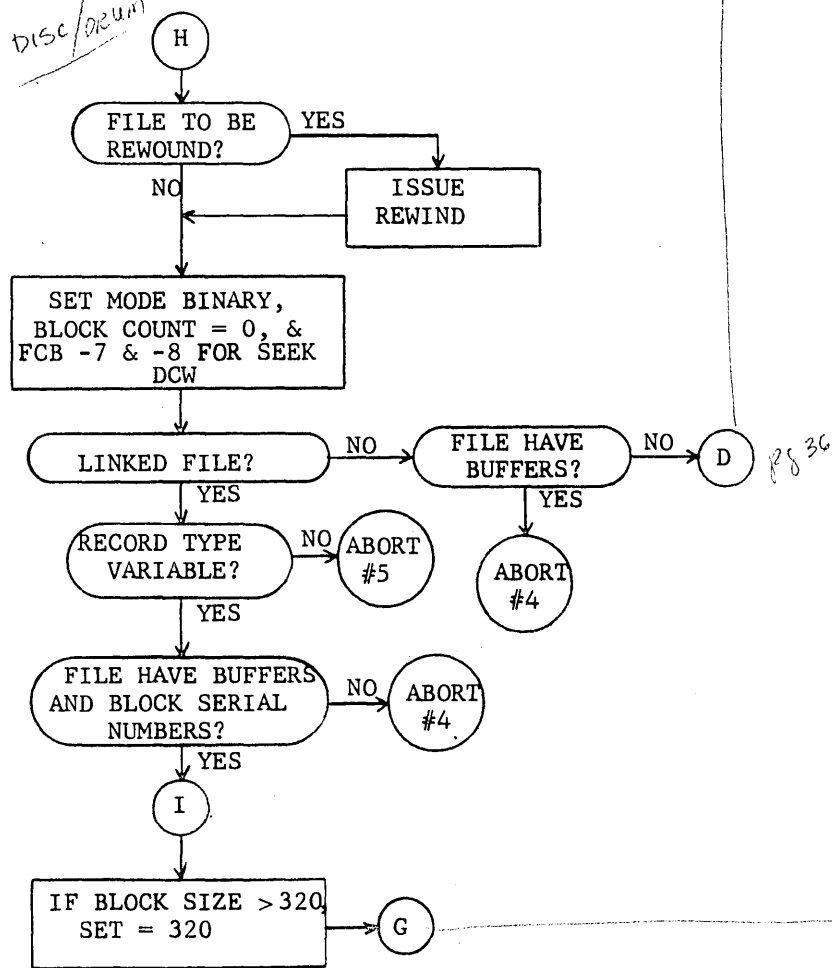


all devices

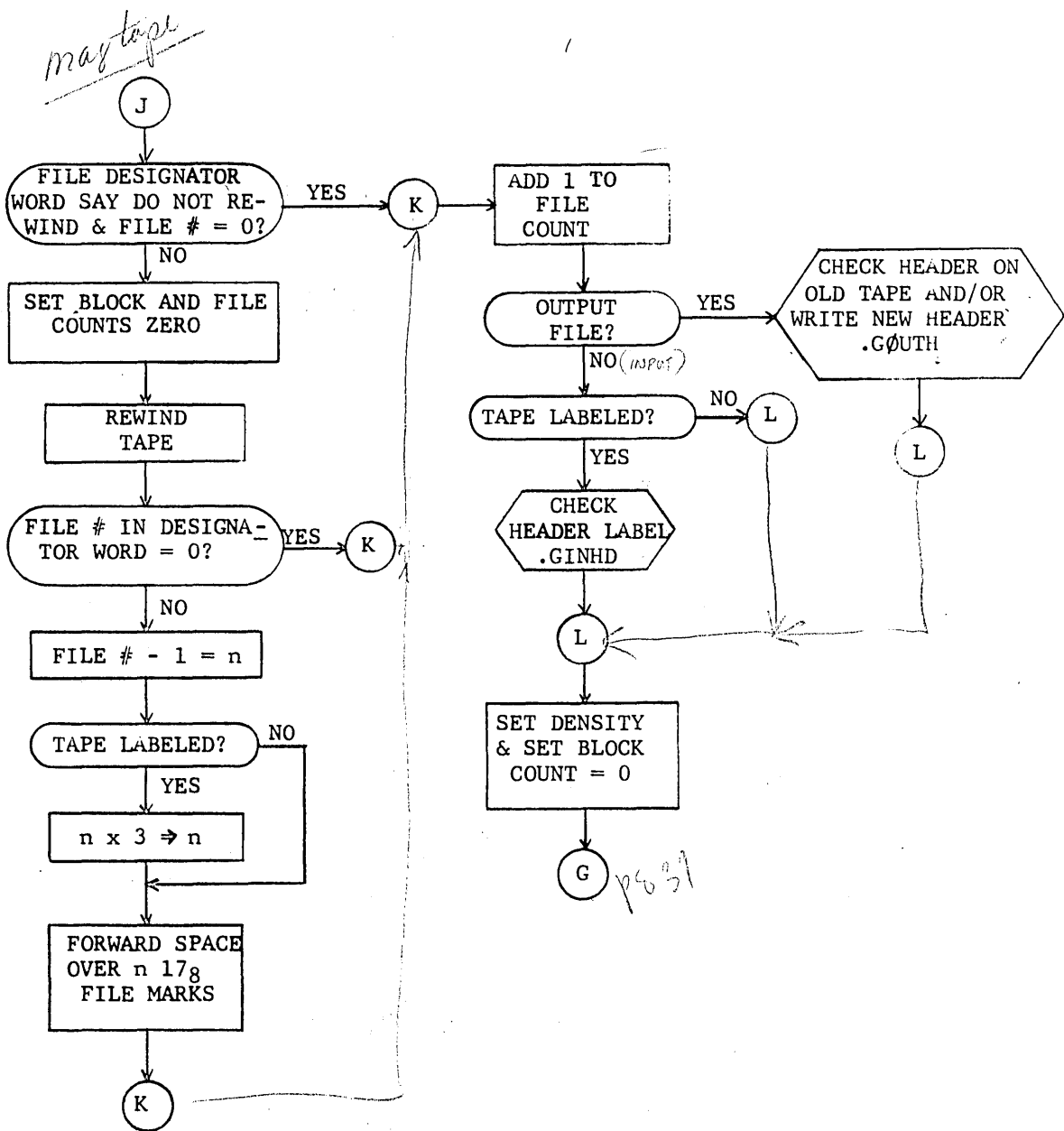


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DISC/DRUM



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Name: .GOUTH

Alternate Names: CALL .GOUTH

XR2 contains the location of the file control
block.

Function: To read the existing header label on a tape to be used
as an output file, check for expired retention period,
and write a new header label if so indicated.

Called By: .GOPEN

Note: See "Label Checking and Unit Switching"

Name: .GOUTL

Alternate Names: None

Calling Sequence: CALL .GOUTL

XR2 contains the location of the file control
block.

Function: To write a trailer label on a labeled output tape file.

Called By: .GCLSE, .GFRCE, .GR275

Note: See "Label Checking and Unit Switching" 99

Name: .GPNCH

Alternate Names: PUNCH, .GAPNC

Calling Sequence: CALL PUNCH (fcb, image, kind)

fcb = location of file control block

image = location of first word of card image

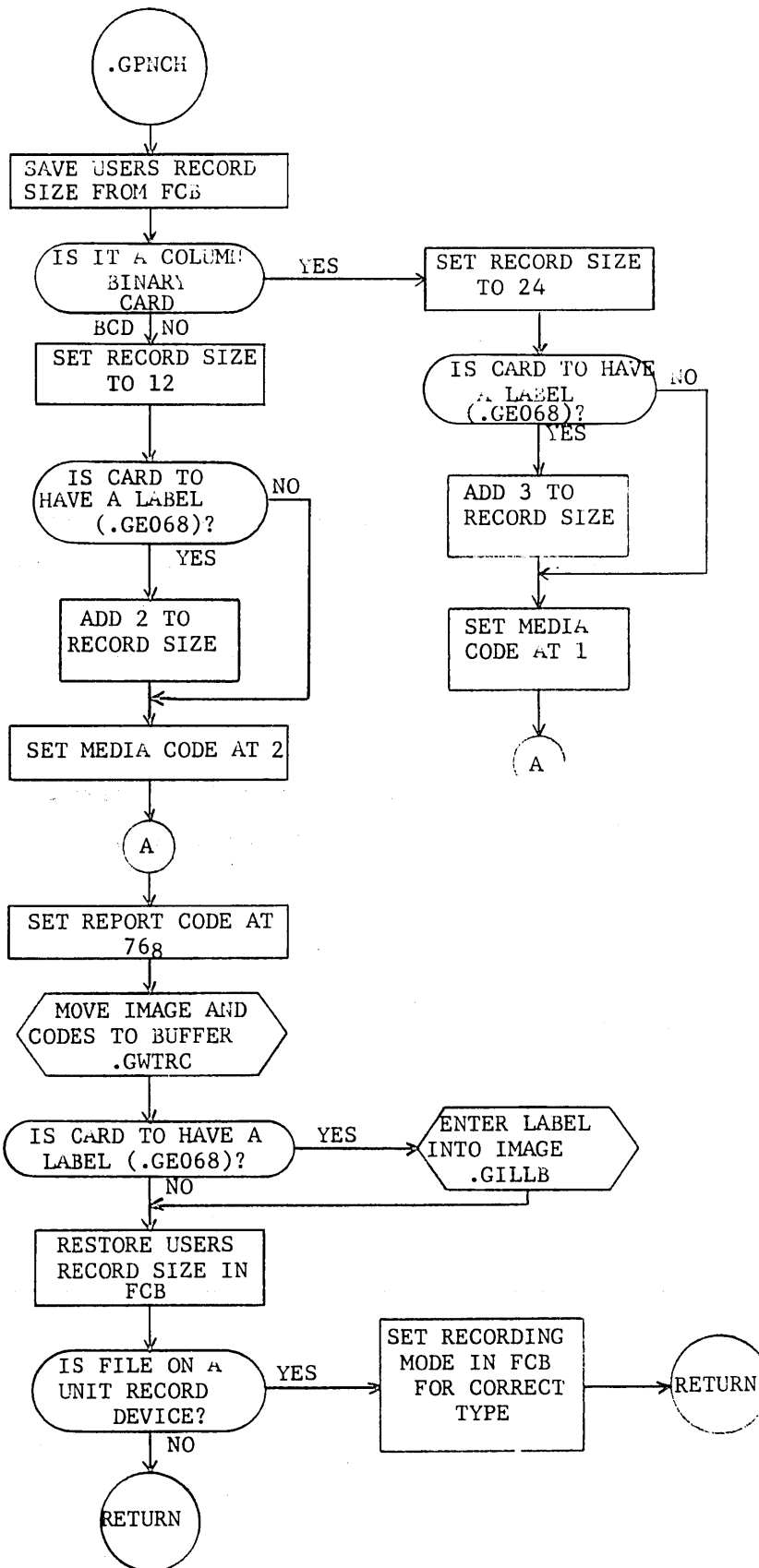
kind = location of word containing key to type
of card--zero, column binary; non-zero,
Hollerith

Function: To insert a punched card image in the next available
position in the designated output file.

Called By: User

Calls For: .GWTRC, .GILLB: references .GEDIT

Number of Words: 72



Name: .GPRNT

Alternate Names: PRINT, .GAPRN

Calling Sequence: CALL PRINT (fcb, image, slew)

fcb = location of file control block

image = location of first word of line image

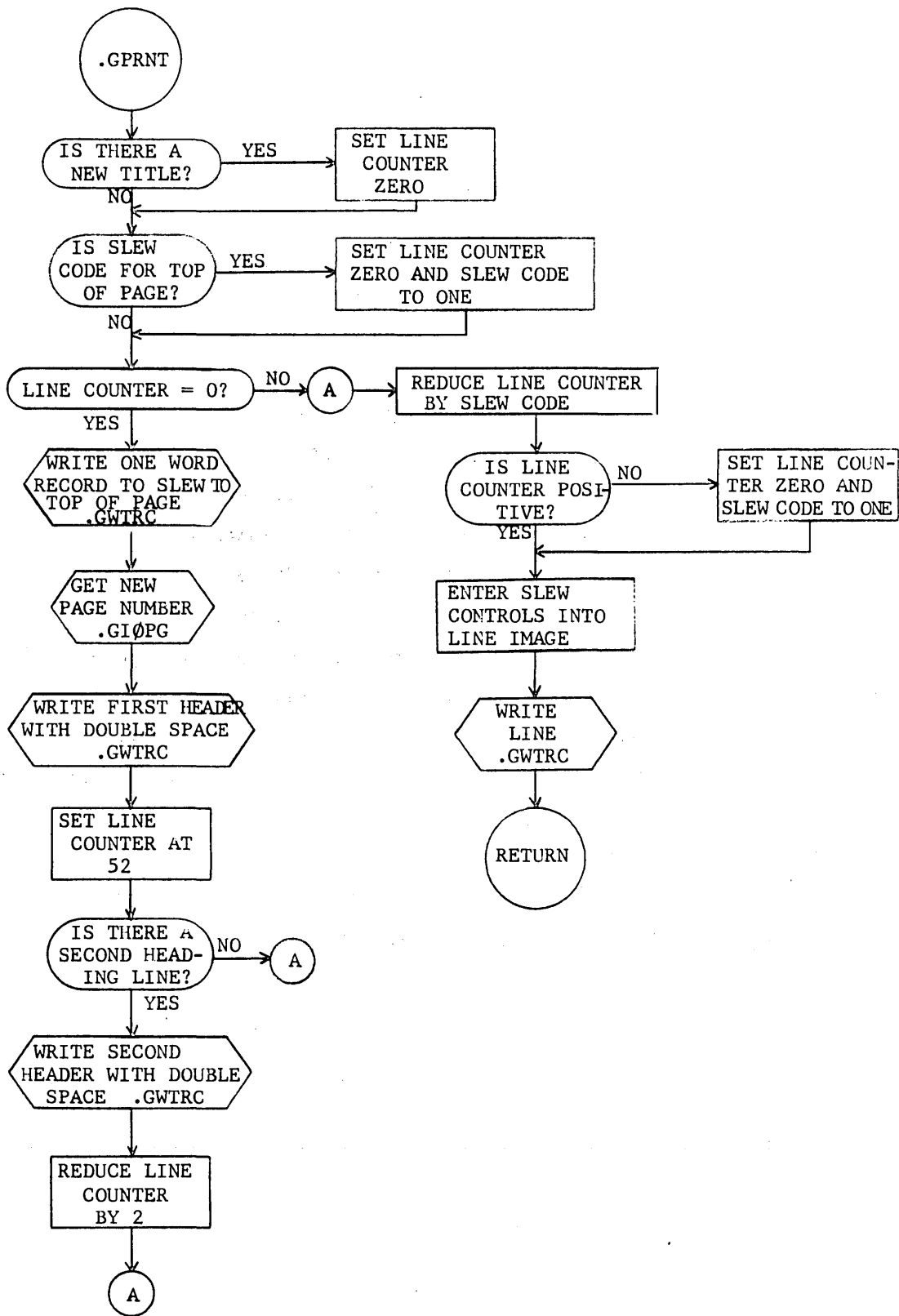
slew = location of word containing slewing
information in bits 30-35

Function: To insert a line into the one current printed report whose pages are automatically 1) titled and subtitled, 2) numbered, and 3) controlled by an internal line counter.

Called By: User, .GEPRN

Called For: .GWTRC, .GIOPG; references .GEDIT

Number of Words: 176



)

Name: .GPTBK

Alternate Names: PUTBK, .GAPTB

Calling Sequence: CALL PUTBK (fcb, stor)

fcb = symbolic location of file control block

stor = location of first data word of record

to be moved into allocated space

Function: To allocate space at the beginning of a buffer of the designated output file for inserting the next logical record of that file and, if desired, move that logical record to the allocated area.

Called By: User

Calls For: .GPTBK is a separate entry to .GPUT

Name: .GPTSZ

Alternate Names: PUTSZ, .GAPTS

Calling Sequence: CALL PUTSZ (fcb, size)

fcb = location of file control block

size = location of word containing new record

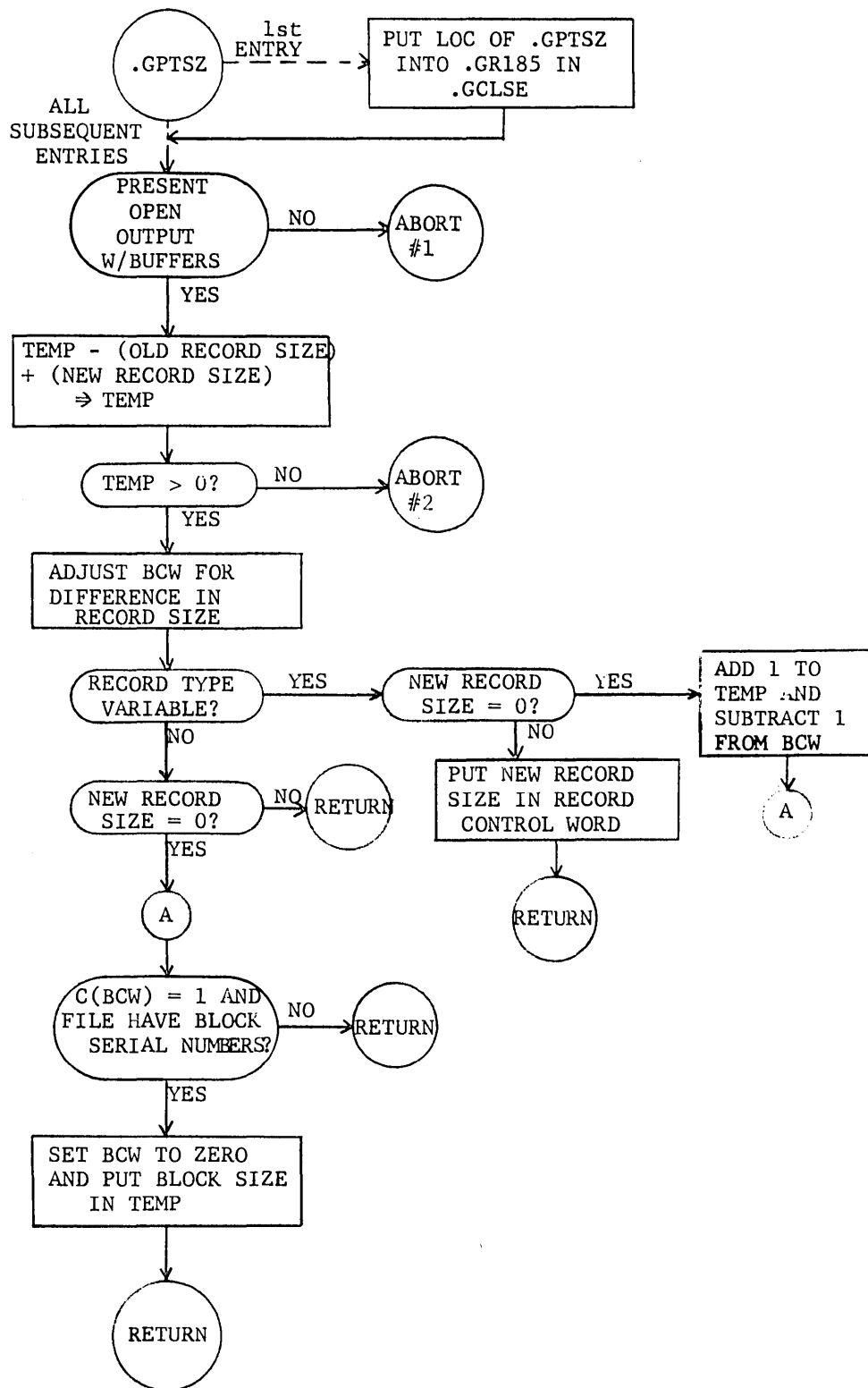
size in bits 0-17

Function: To update the file control block of the designated output file to reflect the true size of the last logical record placed in that file.

Called By: User; .GCLSE if so initialized

Calls For: .GR960, initializes .GR185 in .GCLSE

Number of Words: 62



Name: .GPUT

Alternate Names: PUT, .GAPUT

Calling Sequence: CALL PUT (fcb, stor)

fcb = location of file control block

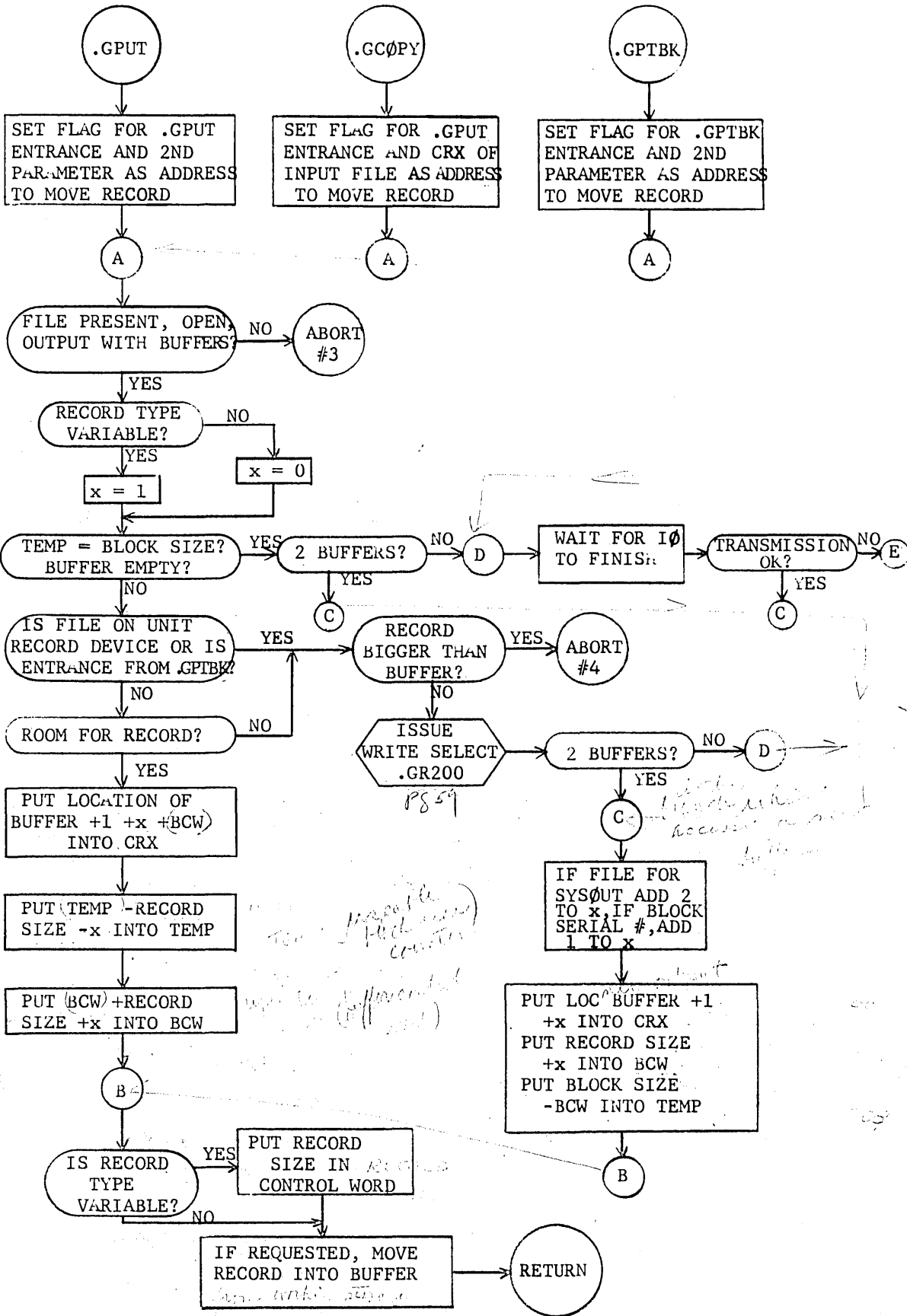
stor = location of first data word of record
to be moved into allocated space

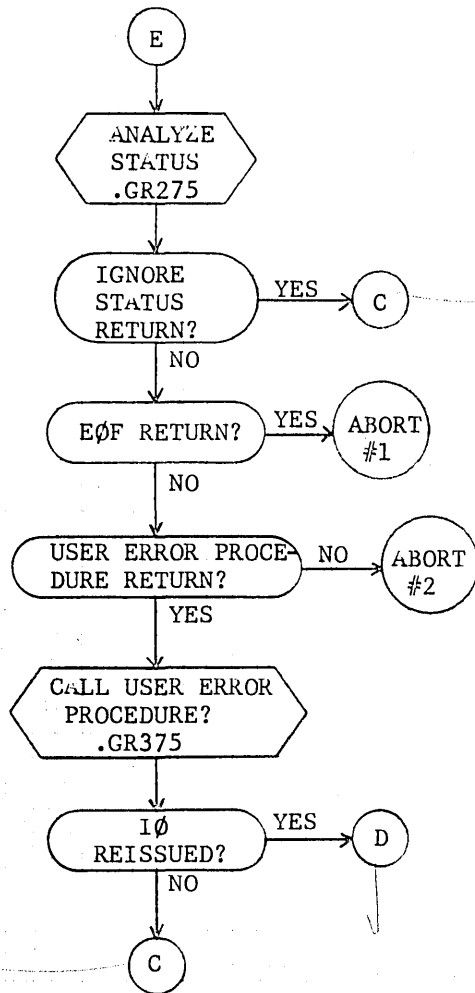
Function: To allocate space within a buffer of the designated output file for inserting the next logical record of that file and, if desired, move that logical record to the allocated area.

Called By: User, .GWTRC

Calls For: .GR200, .GR275, .GR375, .GR960

Number of Words: 150





Name: .GRDCD

Alternate Names: None

Calling Sequence: CALL .GRDCD (fc)

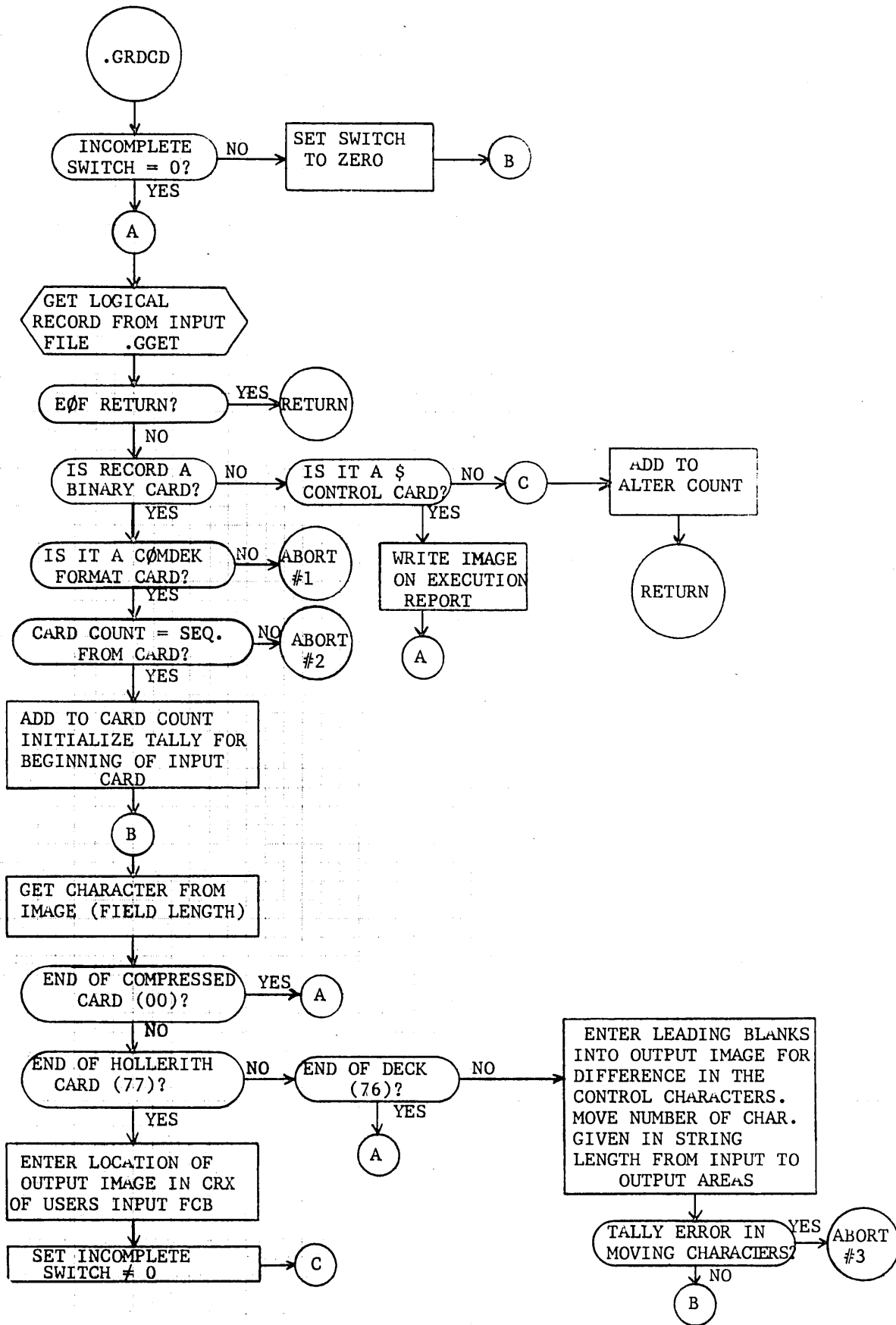
fc = location of file control block

Function: To get the next logical record from the designated input file, and decompress it if it was recorded as a COMDEK image.

Called By: .GRDRC, .GALTR

Calls For: .GGET, .GR960

Number of Words: 146



Name: .GRDRC

Alternate Names: RDREC, .GARDR

Calling Sequence: CALL RDREC (fcb, eof)

fcb = location of file control block

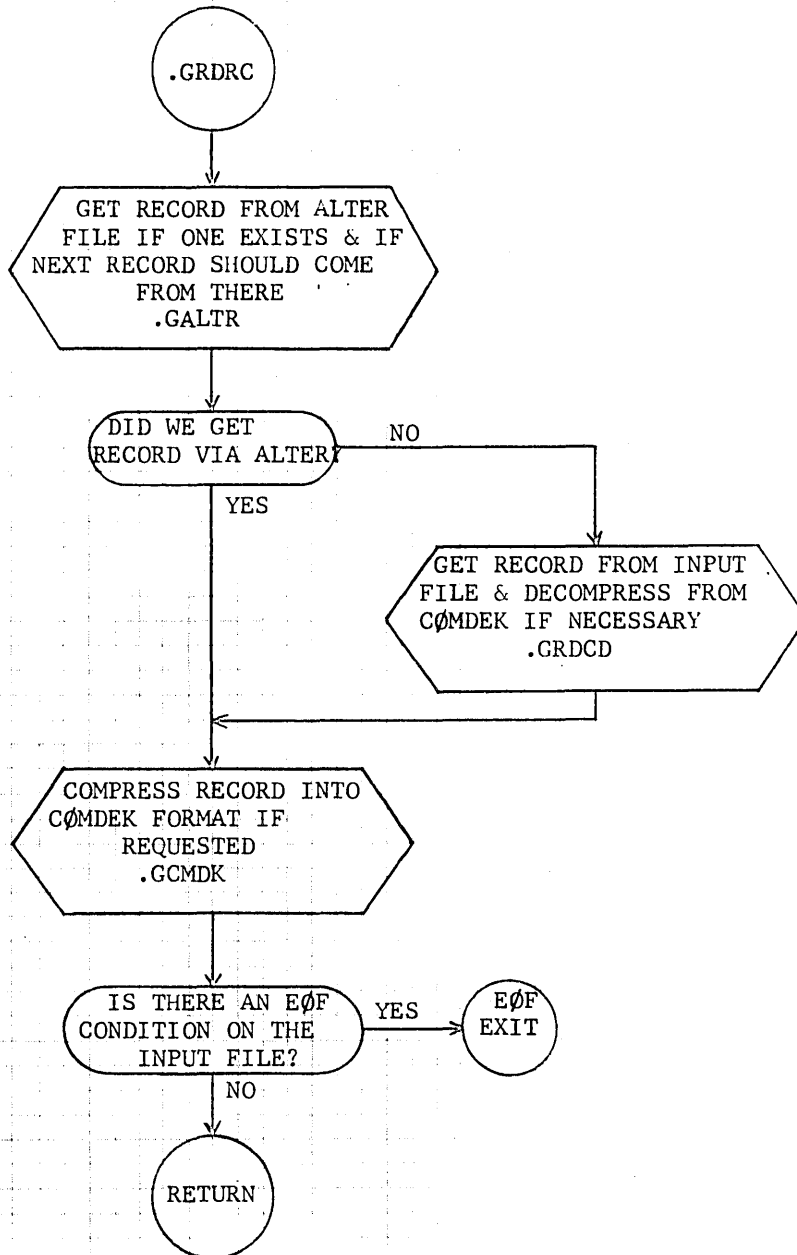
eof = location of end-of-file routine

Function: To obtain the next logical input record from the designated file (with decompression from COMDEK form, if necessary) or from an Alter file of changes to the designated file. Also, if requested, to compress this logical record into the COMDEK format and insert it into the file designated as K*.

Called By: User

Calls For: .GRDCD, .GALTR, .GCMDK

Number of Words: 52



Name: .GREAD

Alternate Names: READ, .GAREA

Calling Sequence: CALL READ (fcb, cont, cc)

fcb = location of file control block

cont = location of first control word where
the control words are DCW's. If the
file is random drum/DSU, the first
control word gives the relative block
address.

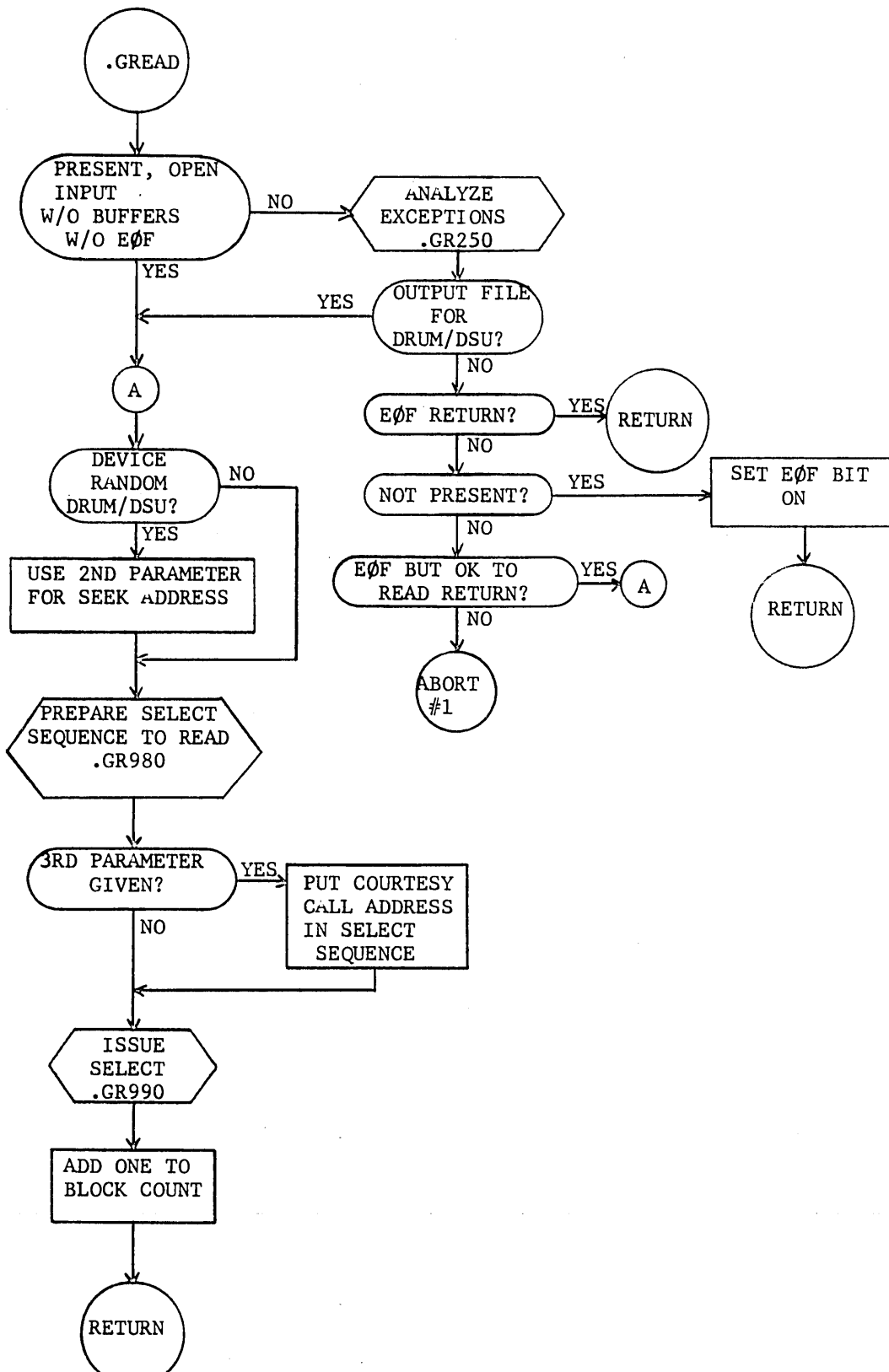
cc = location of a courtesy call routine.

Function: To initiate the reading of a physical record from the
designated file under user control.

Called By: User

Calls For: .GR250, .GR960, .GR980, .GR990

Number of Words: 56



Name: .GRLSE

Alternate Names: RELSE, .GARLS

Calling Sequence: CALL RELSE (fcb)

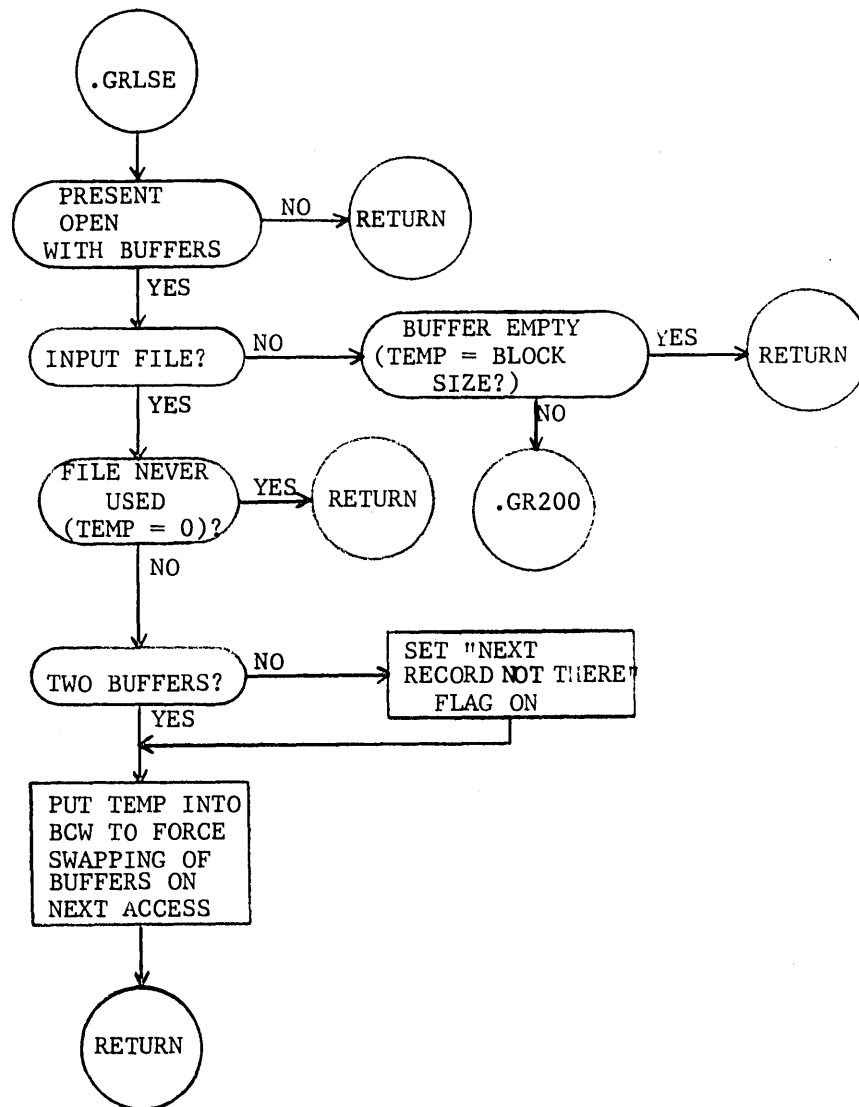
fcb = location of file control block

Function: To cause the next referenced logical record of the designated file to be the first logical record of the next physical record.

Called By: User, .GBSRC, .GFSRC, .GFRCE

Calls For: .GR200

Number of Words: 26



Name: .GRWND

Alternate Names: REWND, .GARWN

Calling Sequence: CALL REWND (fcb)

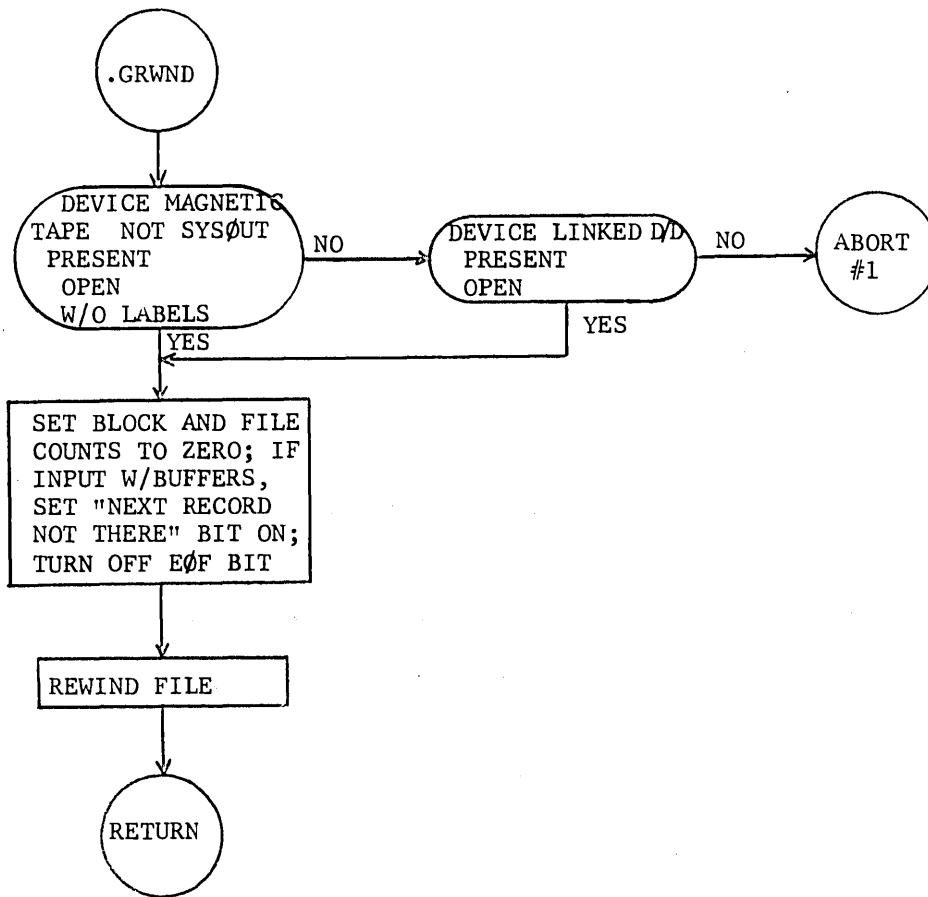
fcb = location of file control block

Function: To rewind a file whose device is unlabeled magnetic tape, linked drum, or linked disc storage unit.

Called By: User

Calls For: .GR960

Number of Words: 44



Name: .GR200

Alternate Names: None

Calling Sequence: CALL .GR200 (fcb)

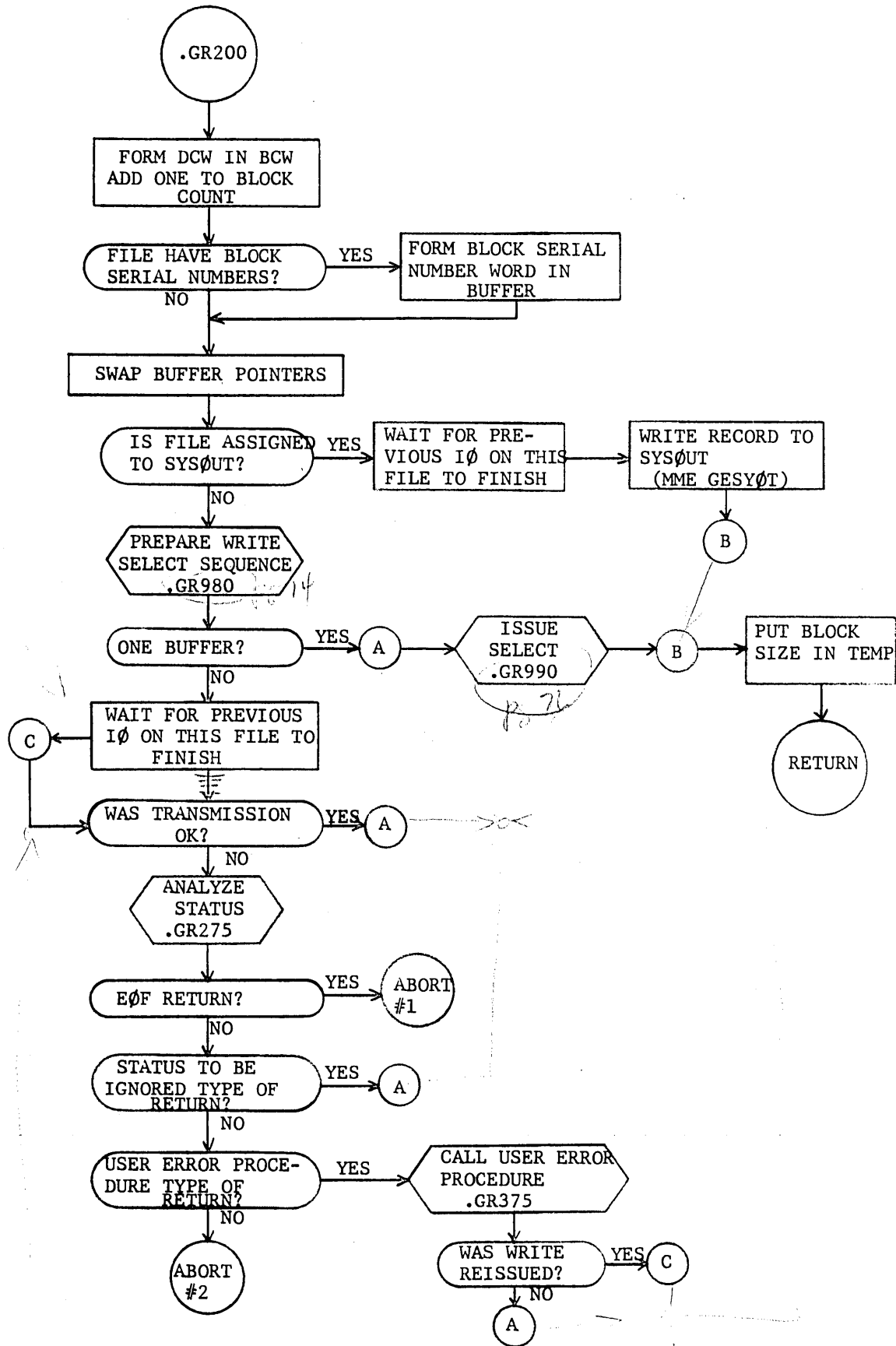
fcb = location of file control block

Function: To effect the writing of the current buffer of the designated file and to do the necessary bookkeeping on that file.

Called By: .GCLSE, .GPUT, .GRLSE, .GWEF

Calls For: .GR375, .GR960, .GR980, .GR990

Number of Words: 92



Name: .GR225

Alternate Names: None

Calling Sequence: CALL .GR225 (fcb)

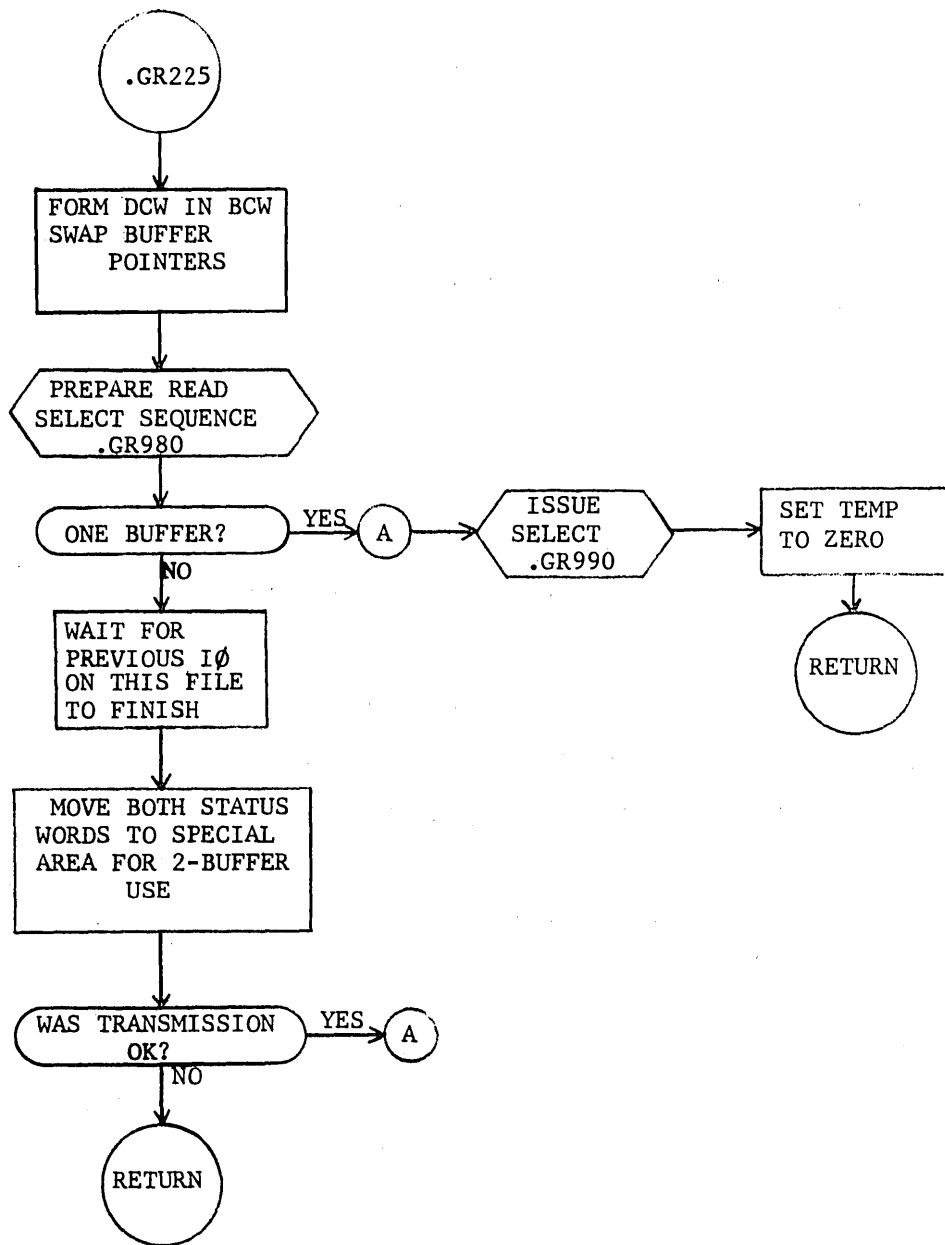
fcb = location of file control block

Function: To effect the reading of the next physical record of the designated file into a buffer for that file and to do the necessary bookkeeping on that file.

Called By: .GGET, .GOPEN, .GSTIN

Calls For: .GR980, .GR990

Number of Words: 44



Name: .GR250

Alternate Names: None

Calling Sequence: A register contains 1-bit in each position where the contents of word-5 of the file control block do not match that required for normal operation of the calling routine. XR2 contains the location of the file control block.

α TSX0 .GR250

+1 Return here if file not present

+2 Return here if end-of-file cannot be overridden

+3 Return here if an end-of-file existed but another read command may now be given

+4 Return here if device is random drum/DSU and the input-output bit is the only exception

+5 Return here if activity should be aborted

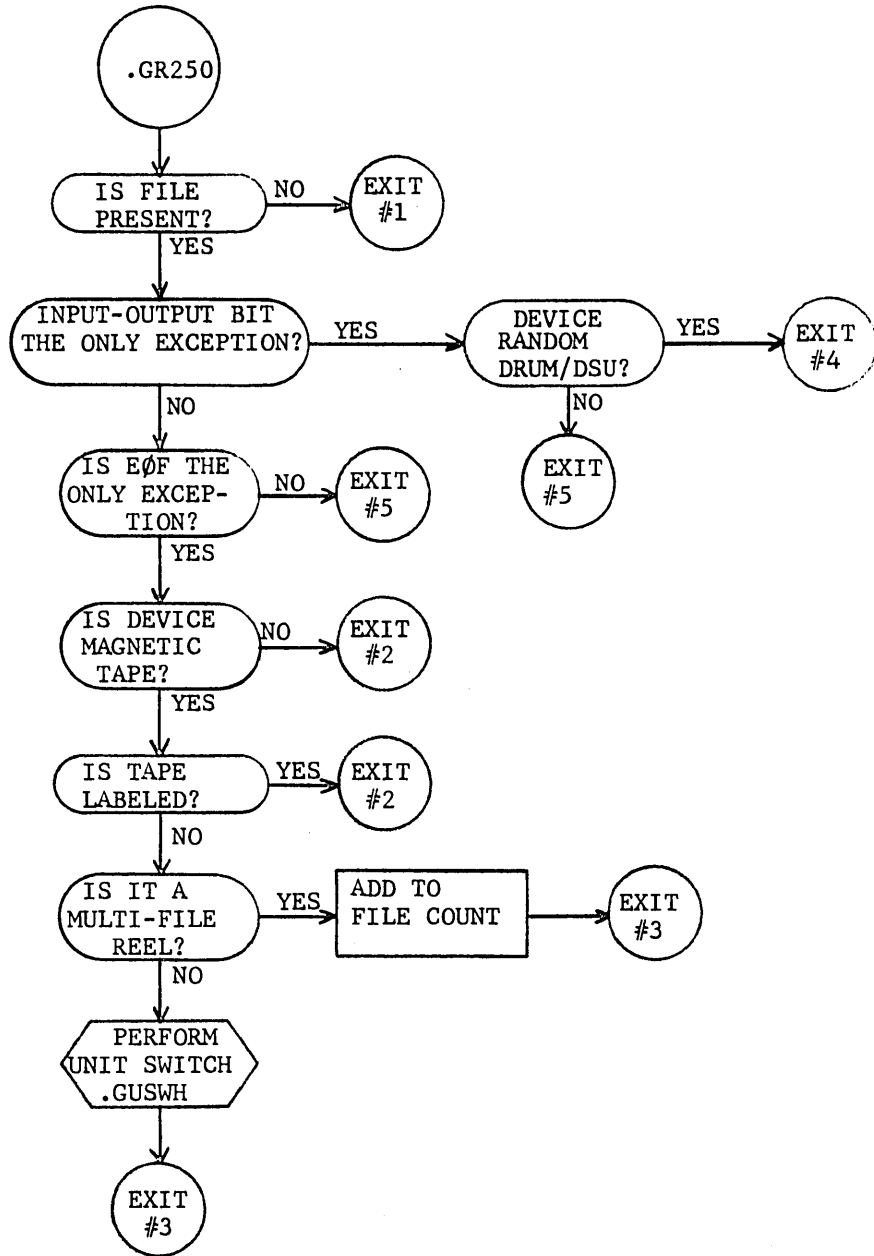
Function: To analyze the exception conditions shown in the file control block and to take any standard actions which are appropriate.

Called By: .GFSRC, .GGET, .GREAD, .GWRIT

.GR250 (continued)

Calls For: .GUSWH

Number of Words: 36



Name: .GR275

Alternate Names: None

Calling Sequence: Bits 2-5 of the A register contains the major status returned by IOS, and XR2 contains the location of the file control block.

∞ TSX0 .GR275

+1 Return here if status is true end-of-file

+2 Return here if non-178 file mark on magnetic tape

+3 Return here if user has supplied an error routine which should be called

+4 Return here if program should be aborted

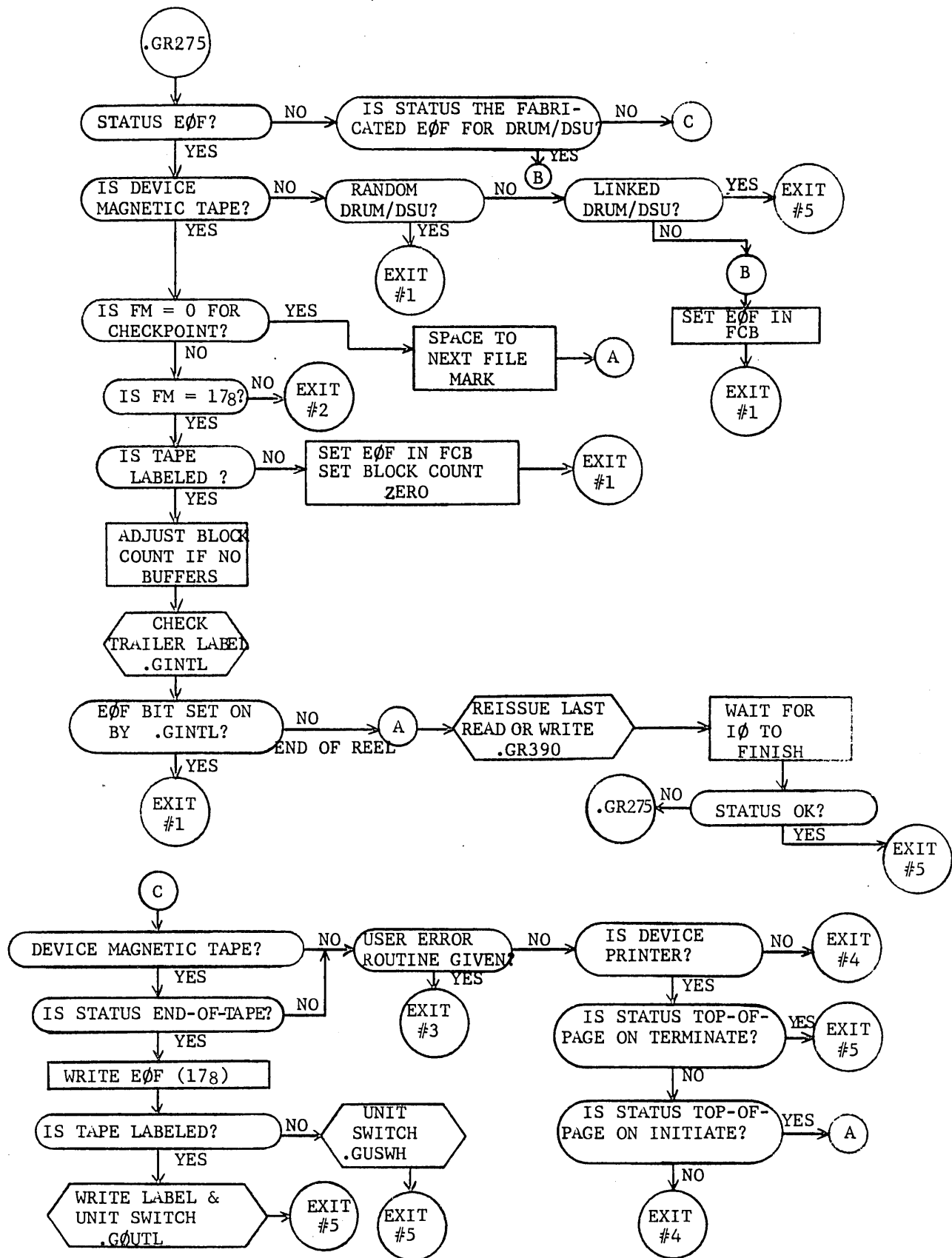
+5 Return here if status should be ignored.

Function: To analyze status returns which are not "channel ready" and to take any standard actions which are appropriate.

Called By: .GCLSE, .GFSRC, .GGET, .GPUT, .GWAIT, .GWEF

Calls For: .GR390, .GINTL, .GUSWH, .GOUTL

Number of Words: 112



Name: .GR375

Alternate Names: None

Calling Sequence: TSX0 .GR375

ARG location of SAVE within calling routine

ARG code for type of error

Return here if error to be ignored

Return here if IO request has been reissued

The error code in the second ARG is zero if

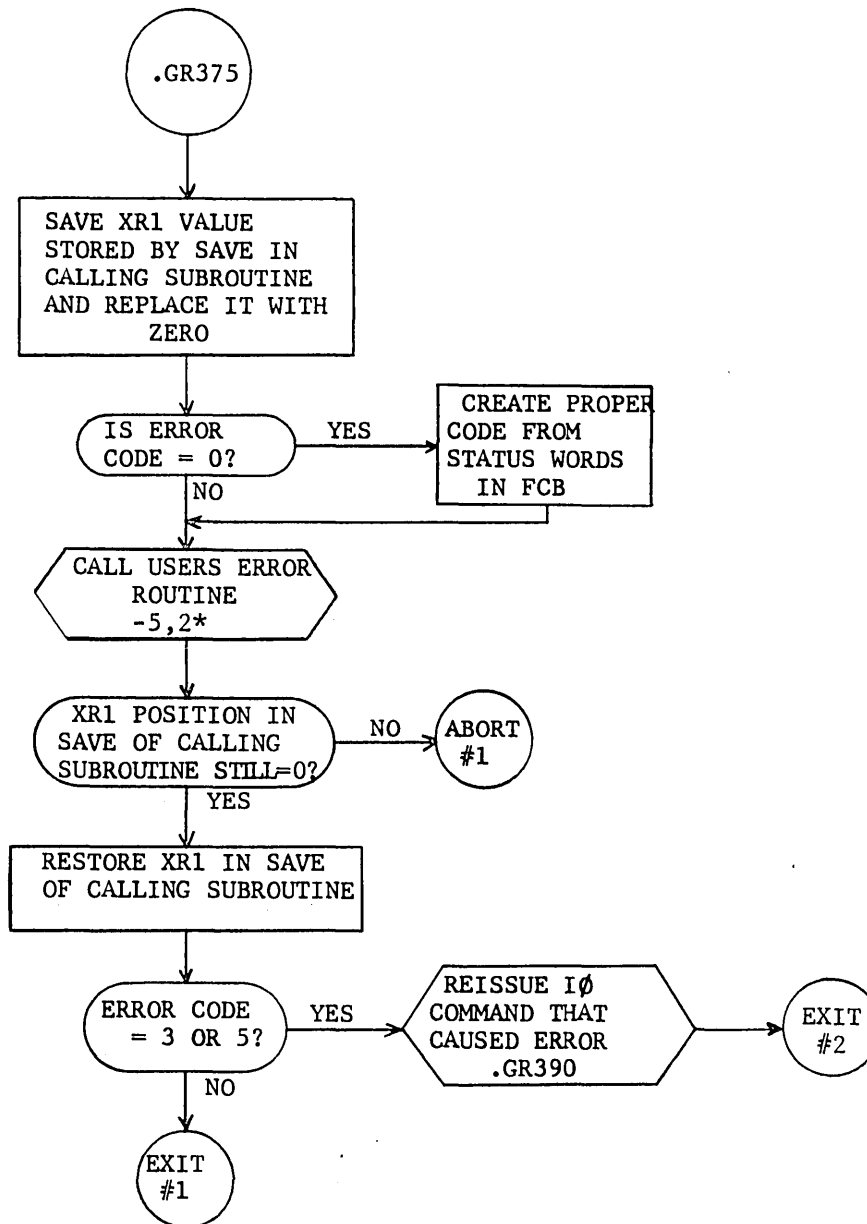
.GR375 is to determine the type of error. XR2
contains the location the file control block.

Function: To call the users error routine specified in word-5
of the FCB and to insure that his action did not use
the routine which encountered the error and called
.GR375.

Called By: .GBSRC, .GFSRC, .GGET, .GPUT, .GWAIT, .GR200

Calls For: .GR390, .GR960, User's error routine

Number of Words: 59



Name: .GR390

Alternate Names: None

Calling Sequence: TSX4 .GR390

XR2 contains the location of the file control
block.

Function: To create a select sequence and issue the command to
repeat a read or write operation which previously
resulted in an initiation interrupt. A code 3 or 5
error was reported to the user via .GR375 and the user
requested that GEFRC retry the operation.

Called By: .GR375, .GR275

Calls For: Uses table of commands in .GR980

Number of Words: 33

Name: .GR960

Alternate Names: None

Calling Sequence: TSXO .GR960

BCI 1, crrrrr

where c is a code number for the type of error
and rrrrr is the name of the routine in which the
error was found. The location of the file control
block for the file on which the error occurred
is in XR2.

Function: To write a message on the execution report via SYSOUT
and then abort the program. The format of the message is:
ABORTED BY GEFRC ROUTINE rrrrr CODE c FILE CODE ff
where c and rrrrr are as in the calling sequence and
ff is the file code of the file referenced by XR2.

Called By: .GBSFM, .GBSRC, .GCLSE, .GFRCE, .GFSFM, .GF SRC, .GGET,
.GOPEN, .GPTSZ, .GPUT, .GRDCD, .GREAD, .GRWND, .GWAIT,
.GWEF, .GWRIT, .GR200, .GR375, .GR980

Calls For: None

Number of Words: 32

Name: .GR980

Alternate Names: None

Calling Sequence: TSX4 .GR980

where: $C(Q_{18-35})$ = location of first DCW

$C(X2)$ = location of file control block

$C(A_{8,9})$ = recording mode as in 20-21 of
word 0 of FCB

$C(A_{11})$ = zero if read command, one for
write

$C(A_{13-17})$ = device code as in 25-29 of
word 0 of FCB; all other bits
of A register are zero

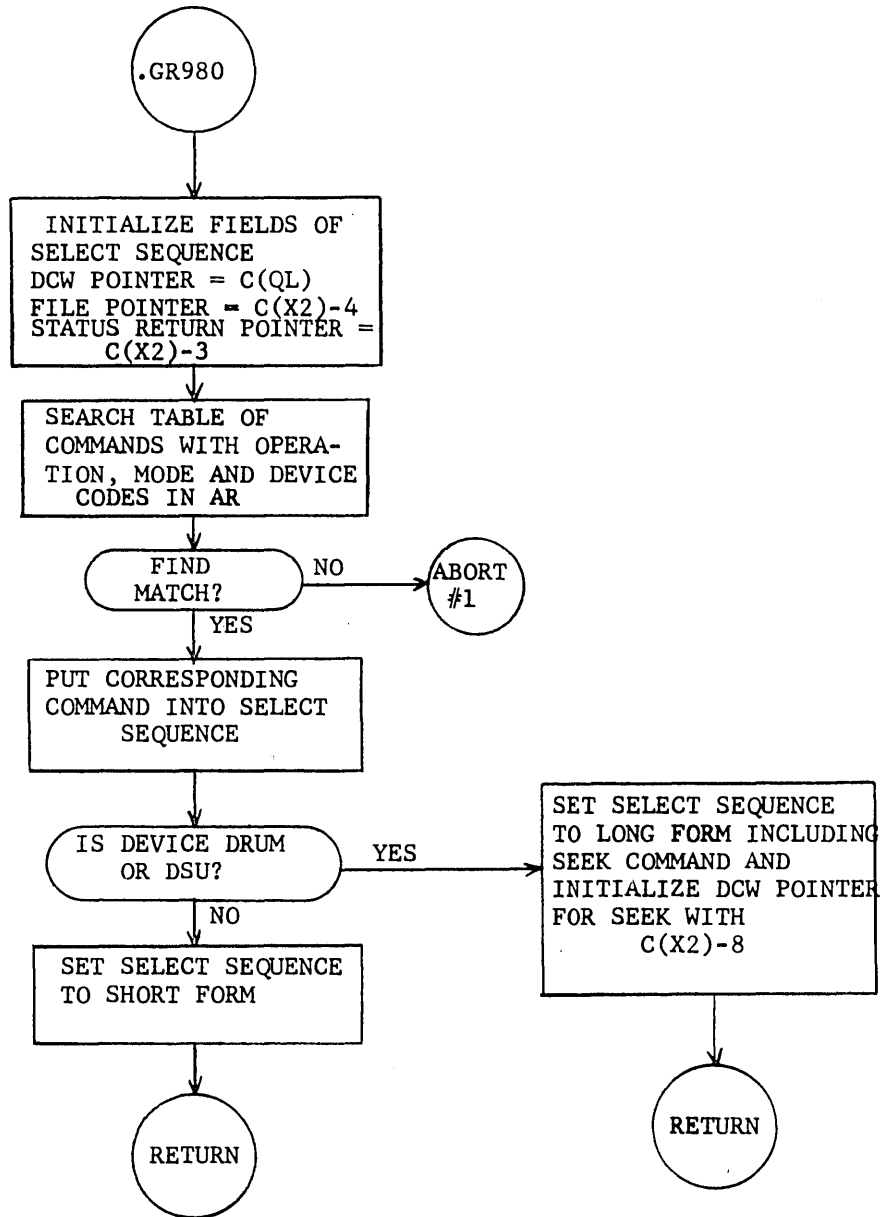
Function: To create a select sequence to IOS for reading or writing
with any legal device. The select sequence is within
the .GR990 subroutine.

Called By: .GCLSE, .GREAD, .GWRIT, .GR200, .GR225

Referenced by: .GR390

Calls For: .GR960; references .GR990

Number of Words: 66



Name: .GR990

Alternate Names: None

Calling Sequence: CALL .GR990

Function: To issue a select via IOS for a read or write operation.
The select sequence contained within this routine was
previously prepared by .GR980.

Called By: .GCLSE, .GGET, .GREAD, .GWRIT, .GR200, .GR225

Referenced by: .GR980

Calls For: None

Number of Words: 16

Name: .GSTIN

Alternate Names: SETIN

Calling Sequence: CALL SETIN (fcb)

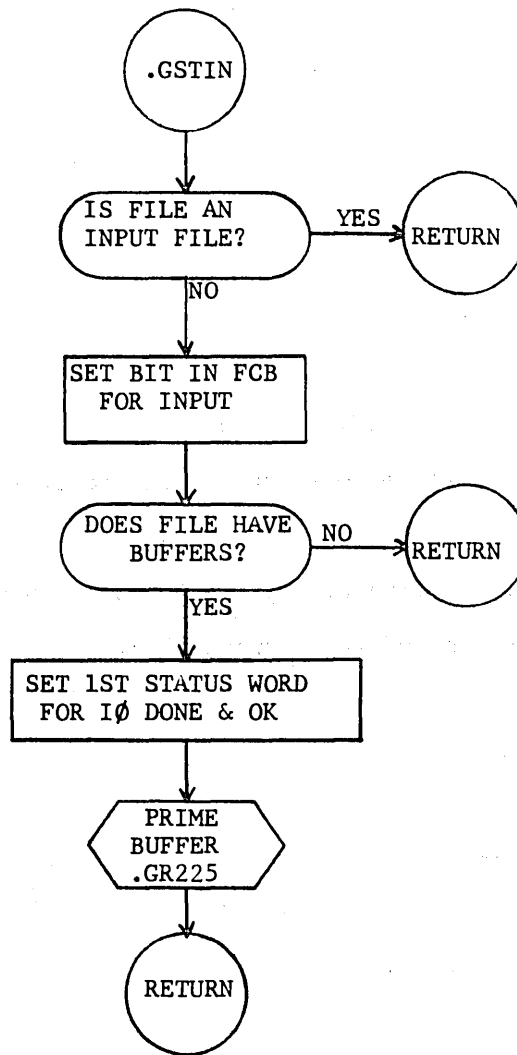
fcb = location of file control block

Function: To set a currently open file to an input file
regardless of its current mode.

Called By: User

Calls For: .GR225

Number of Words: 22



Name: .GSTOT

Alternate Names: SETOUT

Calling Sequence: CALL SETOUT (fcb)

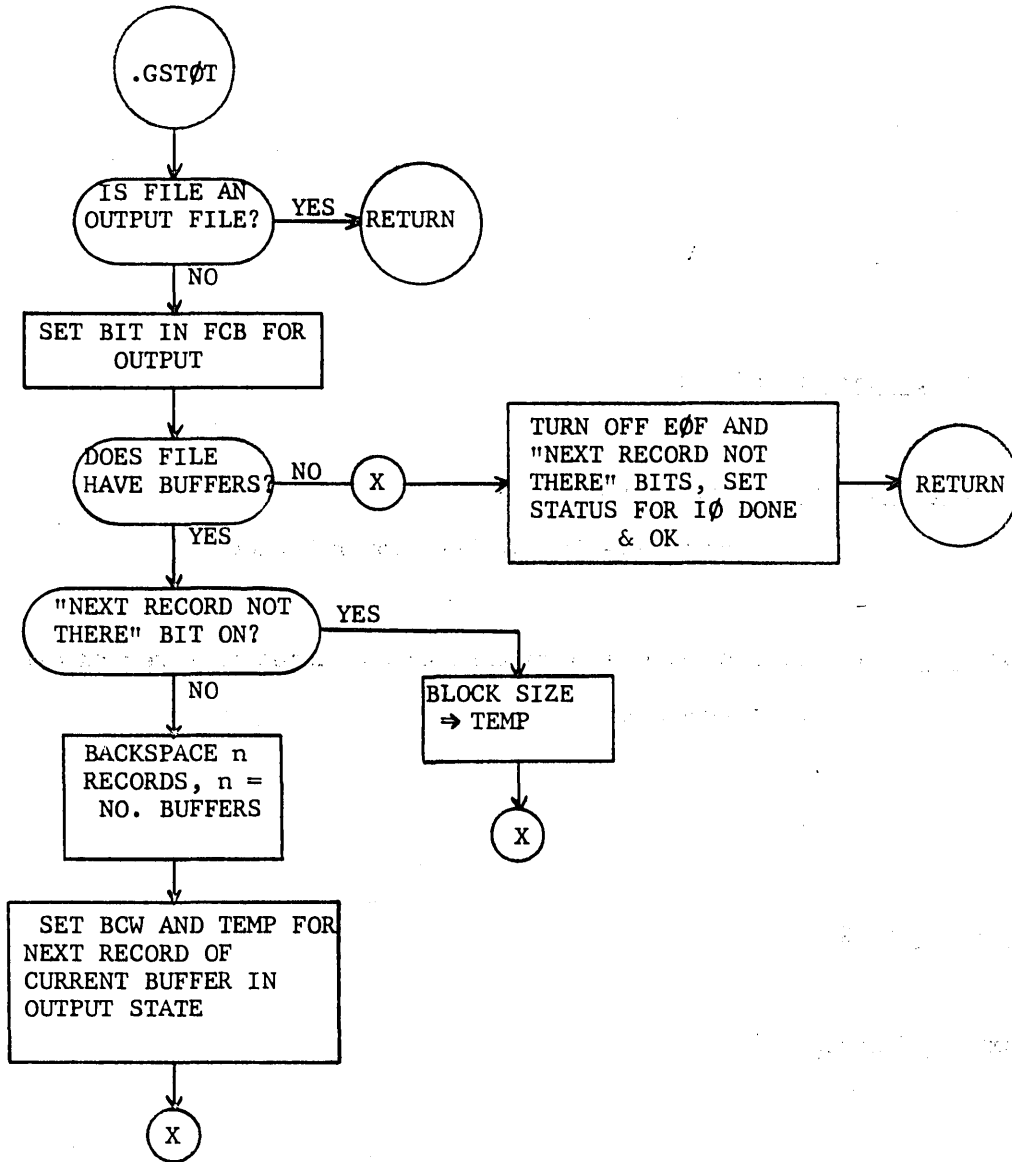
fcb = location of file control block

Function: To set a currently open file to an output file regardless of its current mode.

Called By: User

Calls For: None

Number of Words: 56



Name: .GUSWH

Alternate Names: None

Calling Sequence: CALL .GUSWH

XR2 contains the location of the file control block.

Function: To switch units for a multi-reel tape file and to perform any necessary label procedures.

Called By: .GFRCE, .GR250, .GR275

Note: See "Label Checking and Unit Switching" *pg 90*

Name: .GWAIT

Alternate Names: WAIT, .GAWAI

Calling Sequence: CALL WAIT (fcb, eof)

fcb = location of file control block

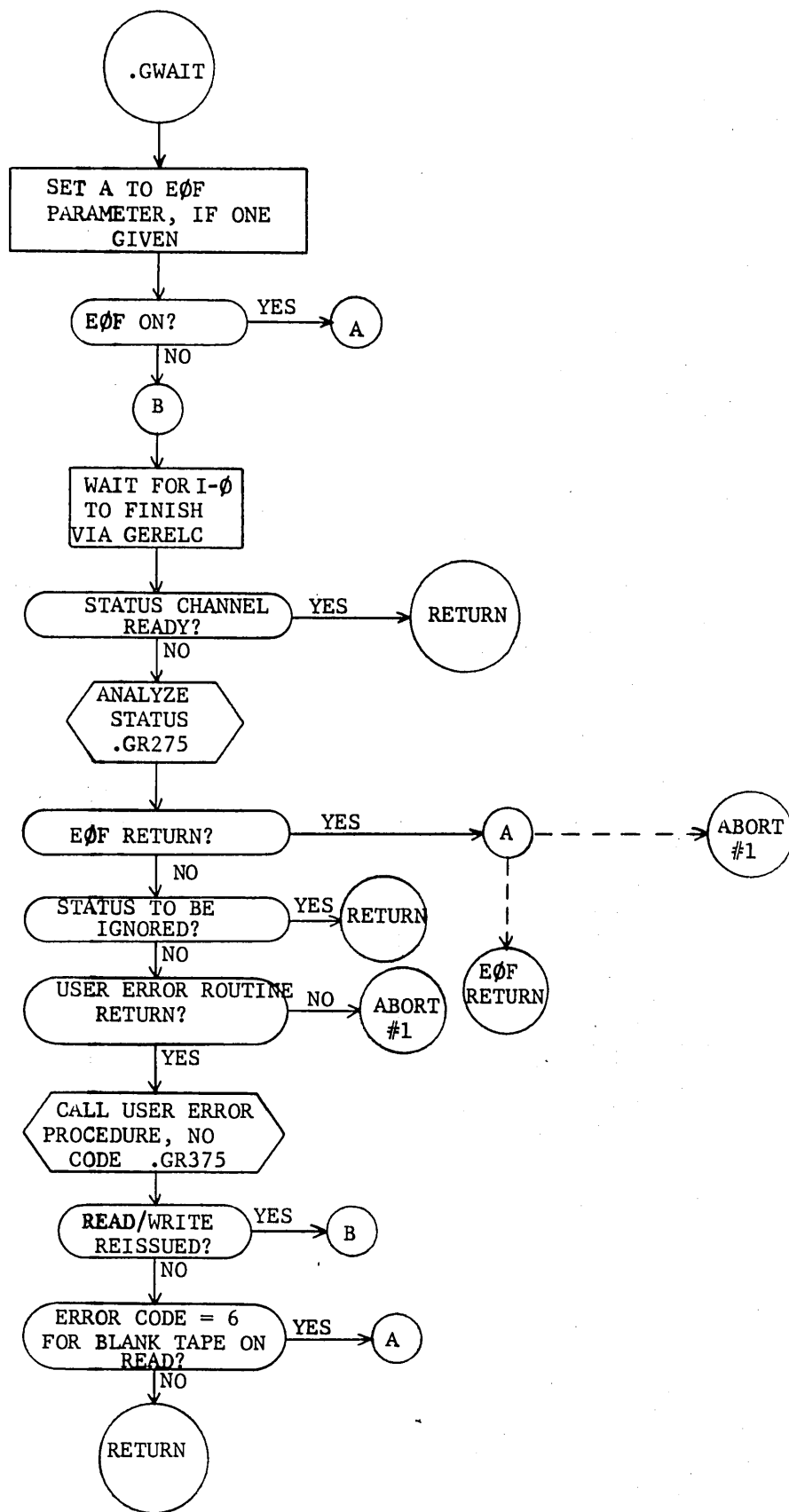
eof = location of end-of-file routine

Function: To delay processing until the satisfactory completion of the last requested I-O activity on the designated file.

Called By: User

Calls For: .GR275, .GR375, .GR960

Number of Words: 50



Name: .GWEF

Alternate Names: WEF, .GAWEF

Calling Sequence: CALL WEF (fcb, file-mark)

fcb = location of file control block

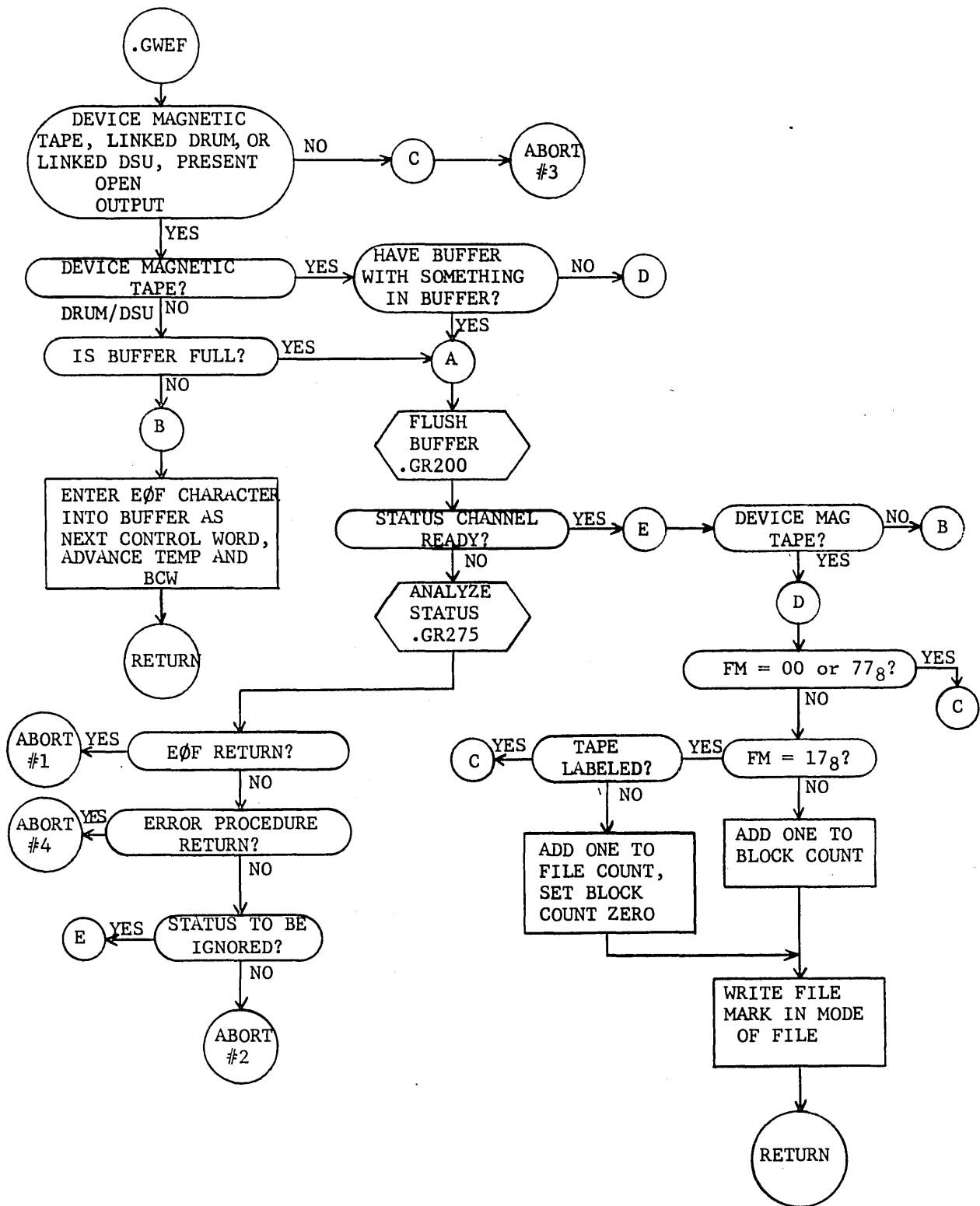
file-mark = location of word containing file
mark character in bits 30-35

Function: To write a file mark on an output file whose device is
magnetic tape, linked drum, or linked disc storage
unit.

Called By: User

Calls For: .GR200, .GR275, .GR960

Number of Words: 114



Name: .GWRIT

Alternate Names: WRITE, .GAWRI

Calling Sequence: CALL WRITE (fcb, cont, cc)

fcb = location of file control block

cont = location of first control word where the control words are DCW's. If the file is on random drum/DSU, the first control word gives the relative block address

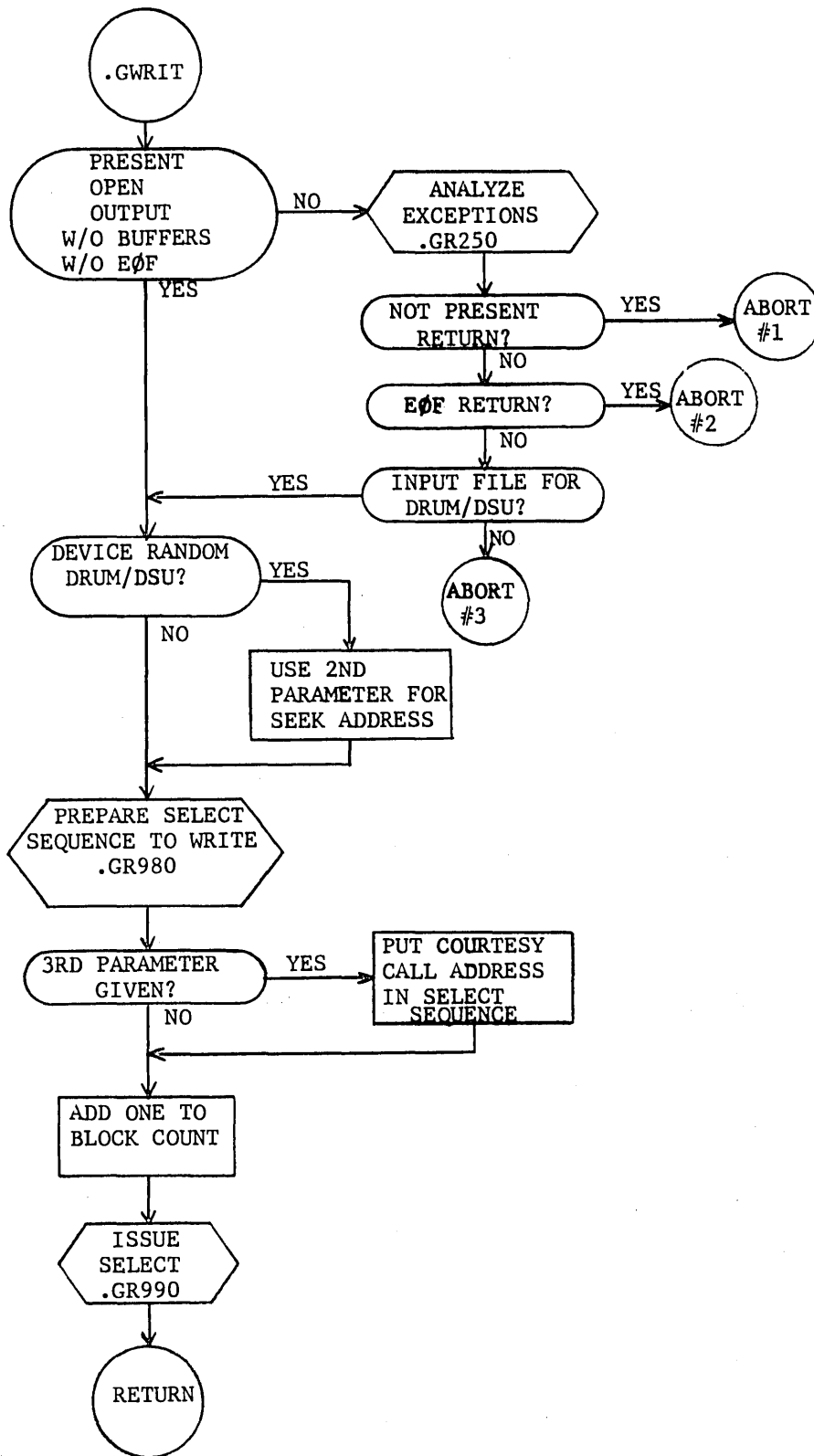
cc = location of a courtesy call routine

Function: To initiate the writing of a physical record on the designated file under user control.

Called By: User

Calls For: .GR250, .GR960, .GR980, .GR990

Number of Words: 54



Name: .GWTRC

Alternate Names: WTREC, .GAWTR

Calling Sequence: CALL WTREC (fcb, image, media, report)

fcb = location of file control block

image = location of first word of the output
image to be moved

media = location of word containing media code
in bits 30-35

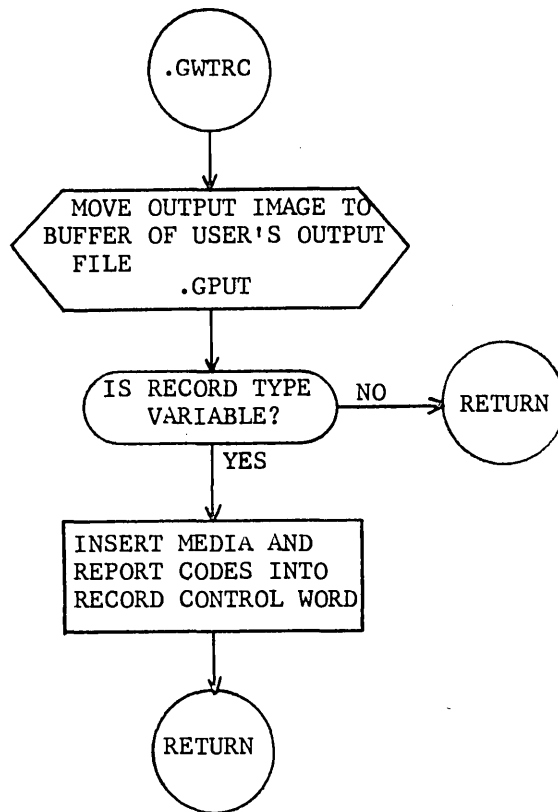
report = location of word containing report code
in bits 30-35

Function: To insert in the next available position in the
designated output file a logical record whose ultimate
form is to be a printed line or a punched card

Called By: User, .GALTR, .GCMDK, .GPRNT, .GPNCH

Calls For: .GPUT

Number of Words: 34



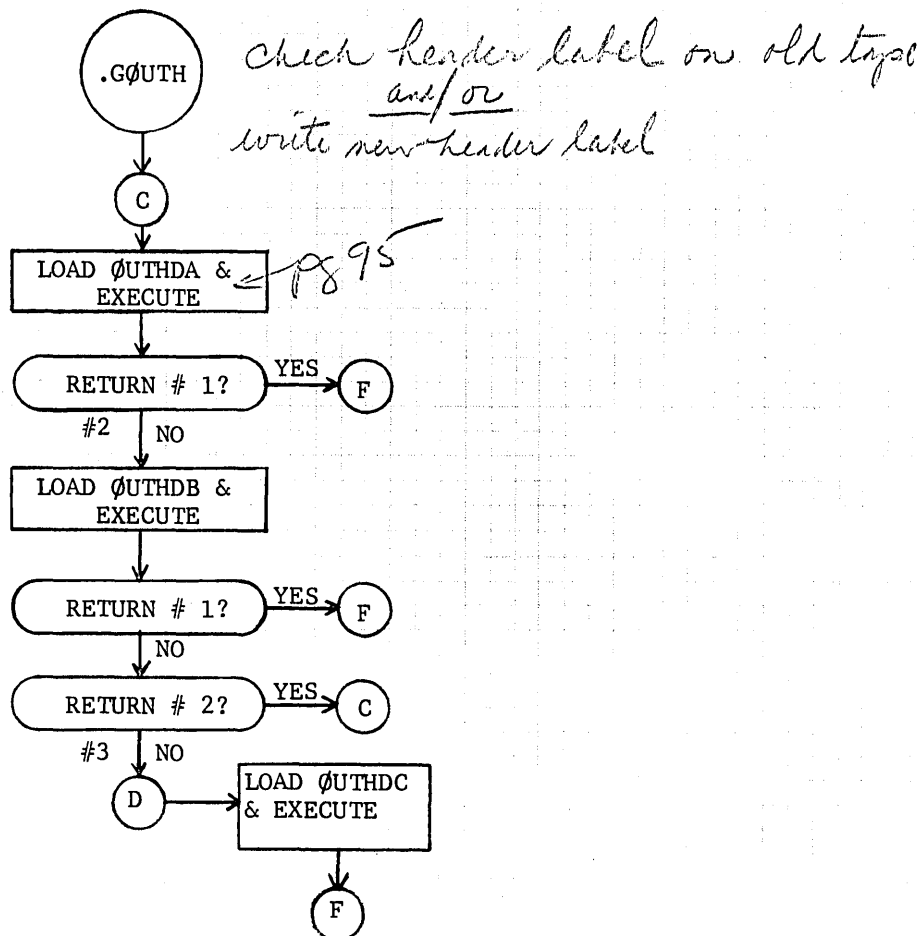
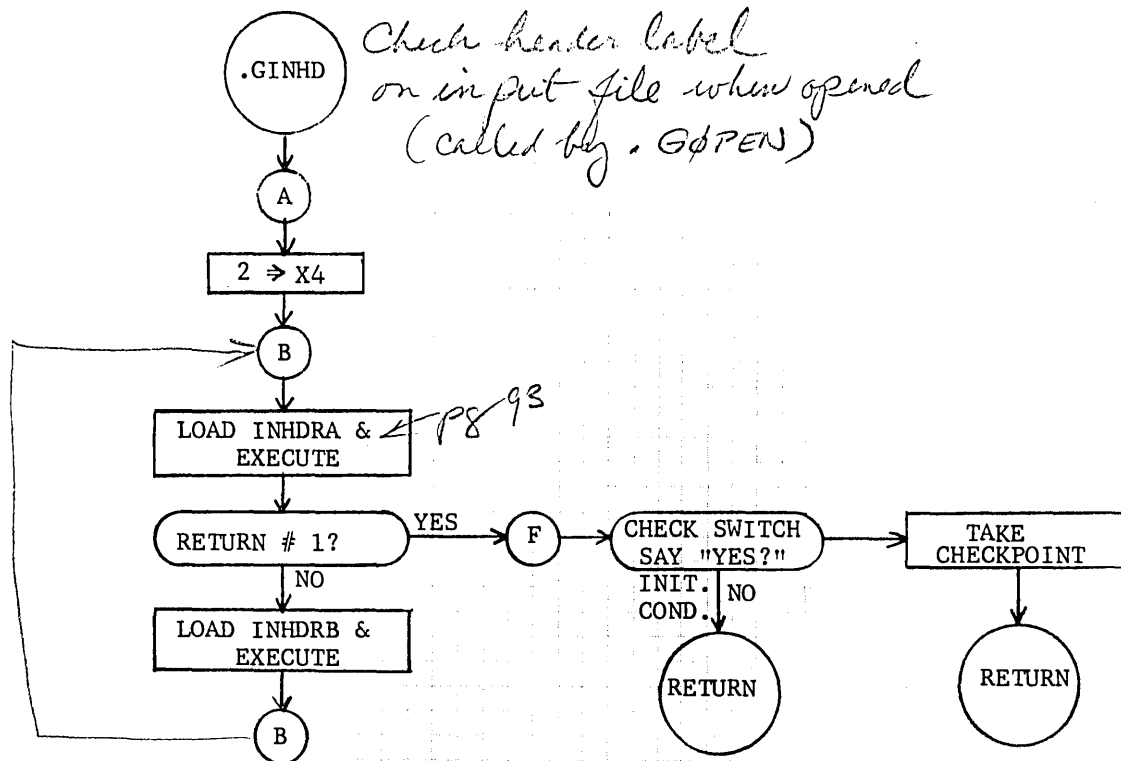
Name: Label Checking and Unit Switching

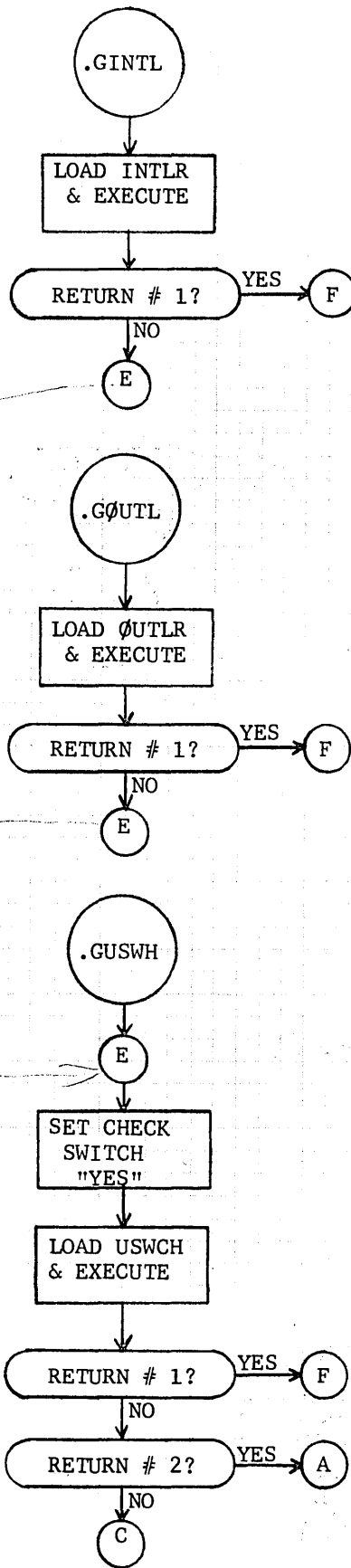
Entry Names: .GINHD, .GINTL, .GOUTH, .GOUTL, .GUSWH

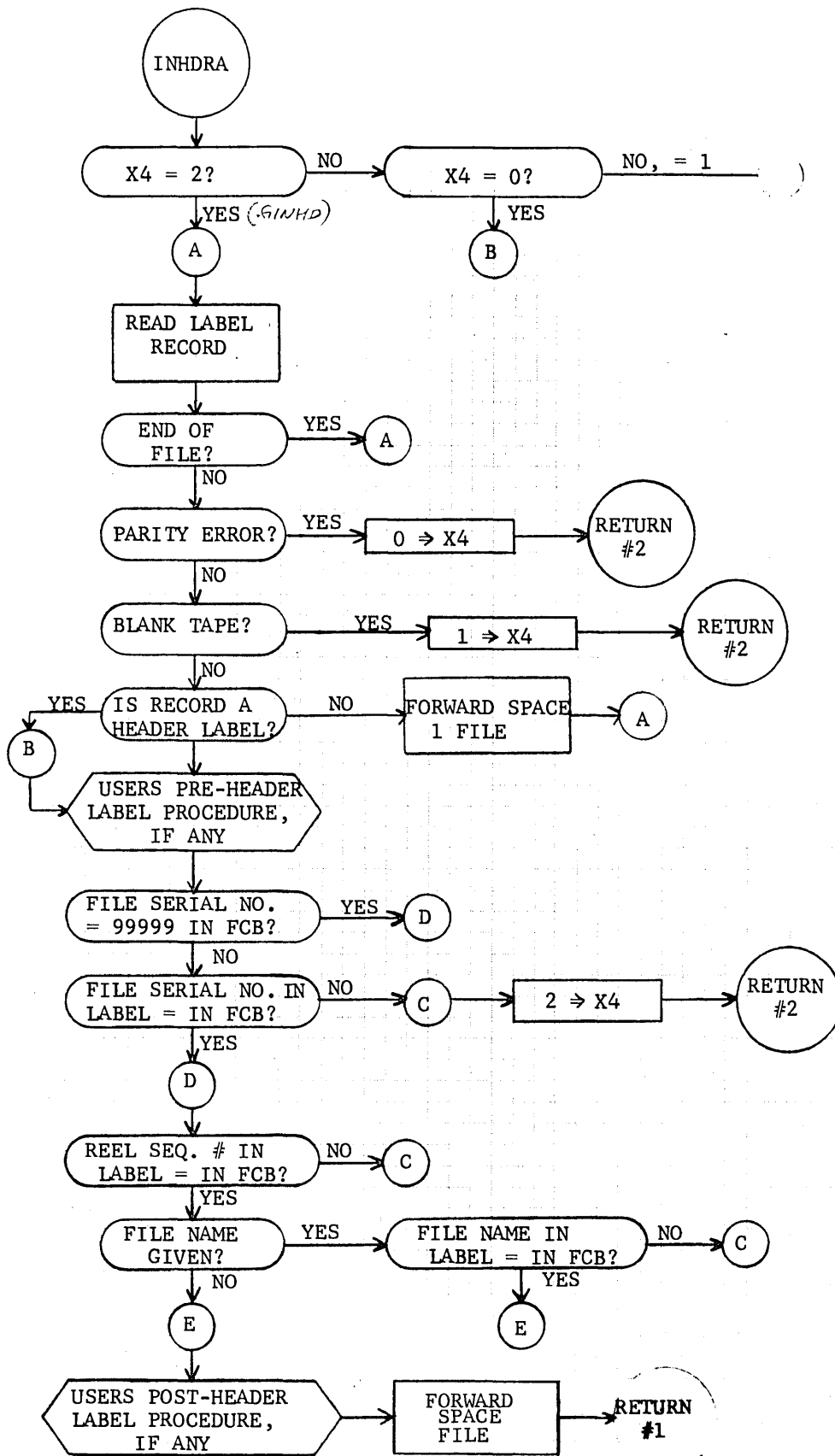
Procedure: The label checking and unit switching control routine has entries for the five names listed above. It calls for the appropriate routine(s) to be loaded into its own overlay area from the system library and for their subsequent execution.

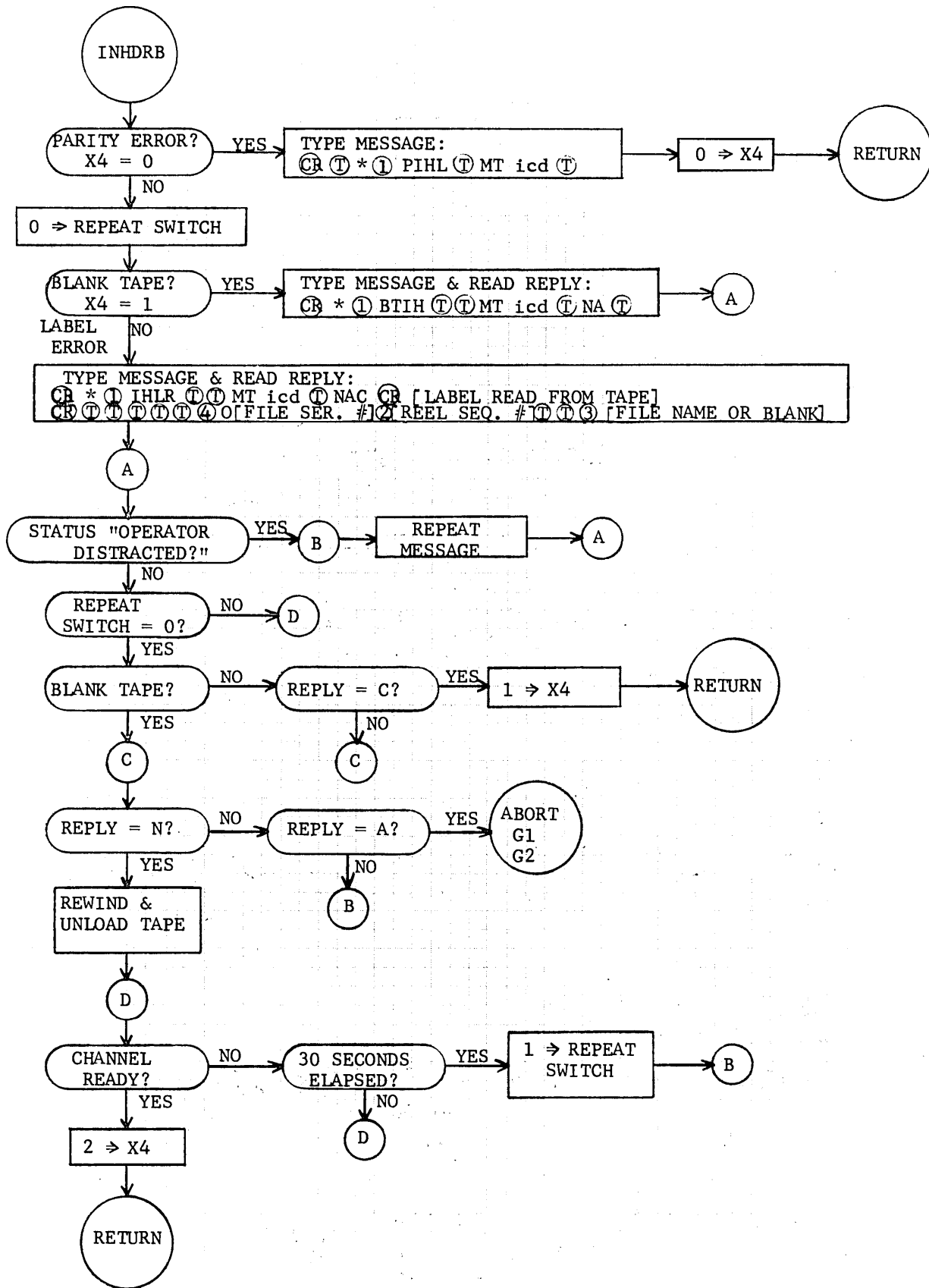
Calls For: Loading of subroutines via MME GECALL

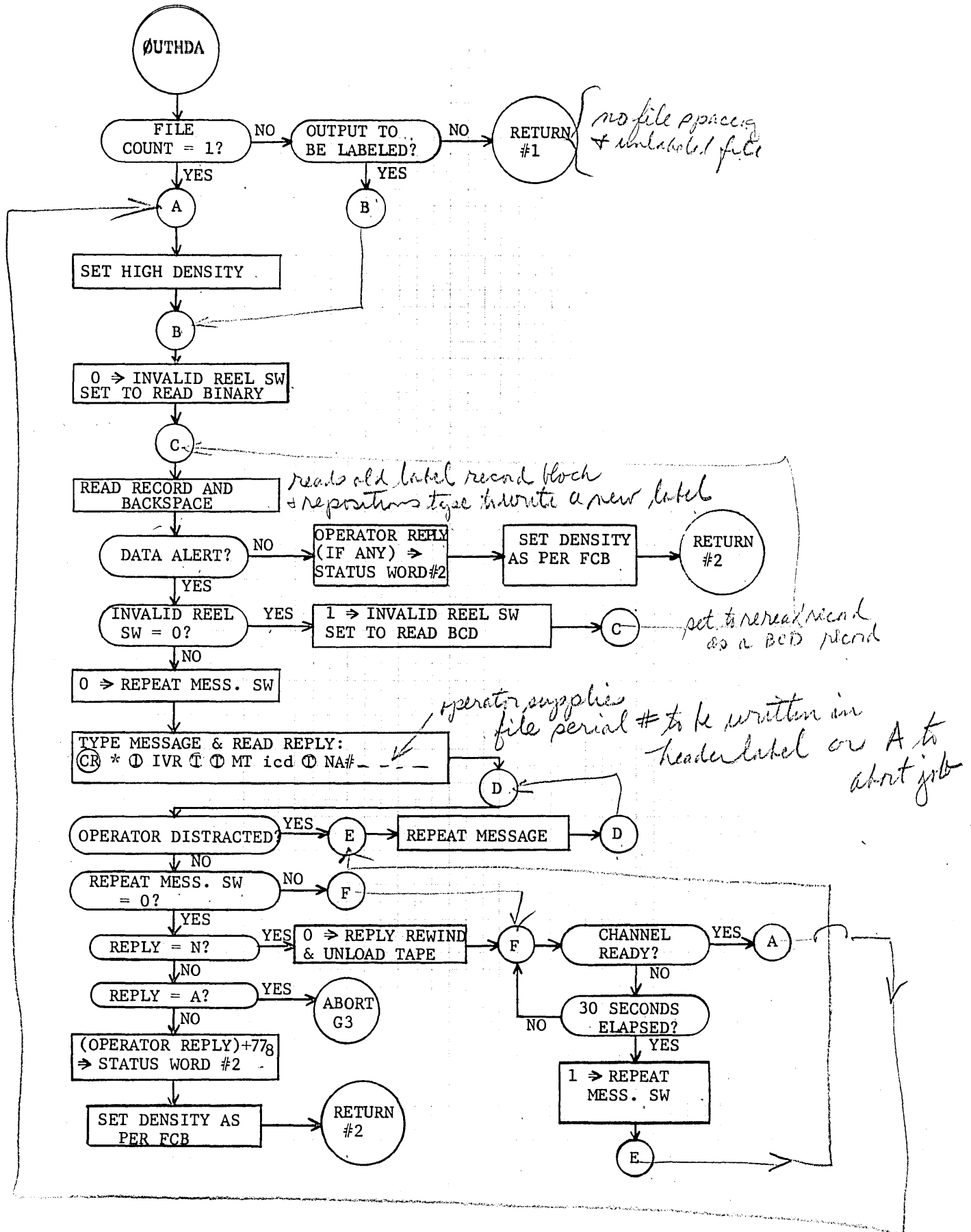
Number of Words: 330 including label and subroutine overlay areas

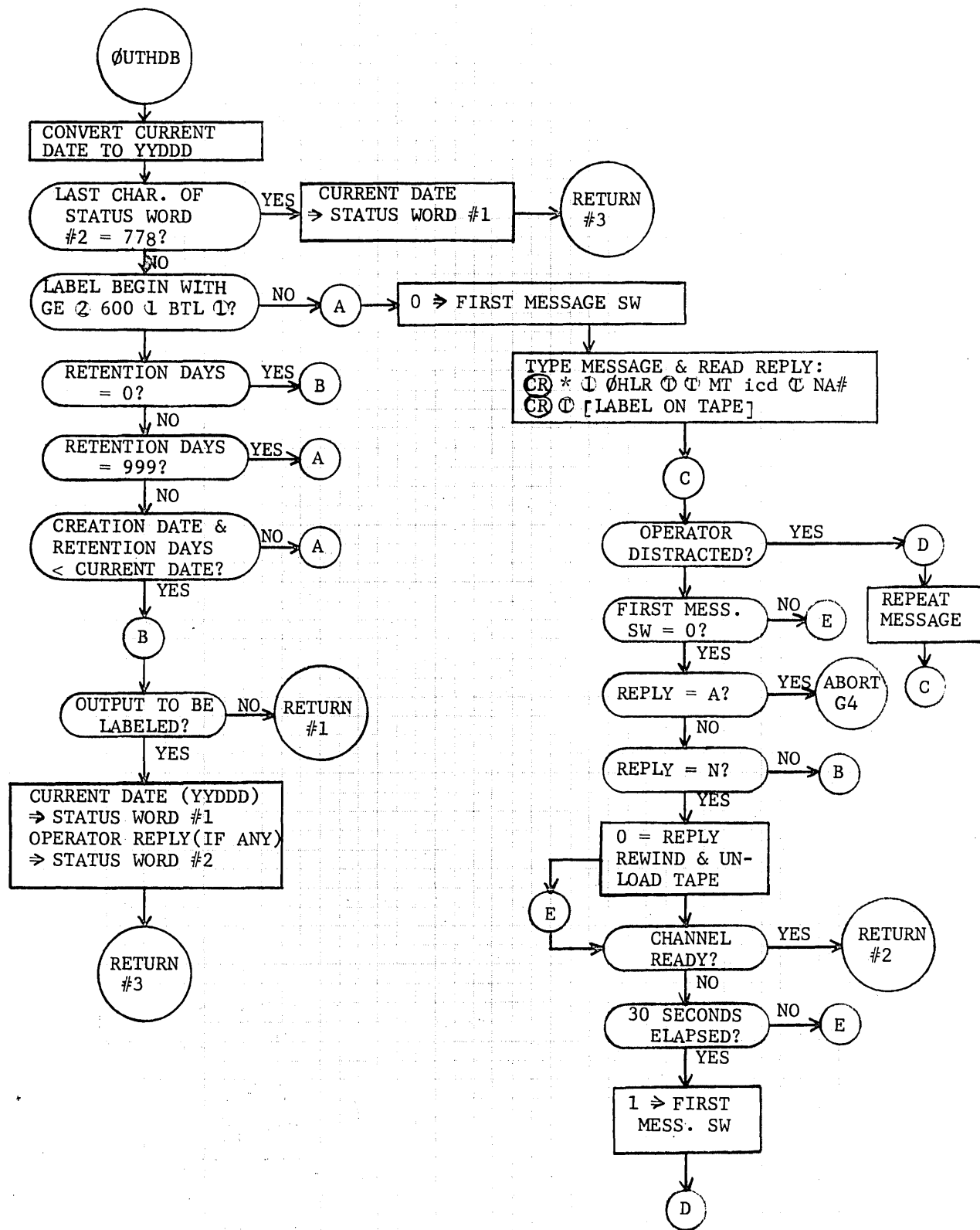


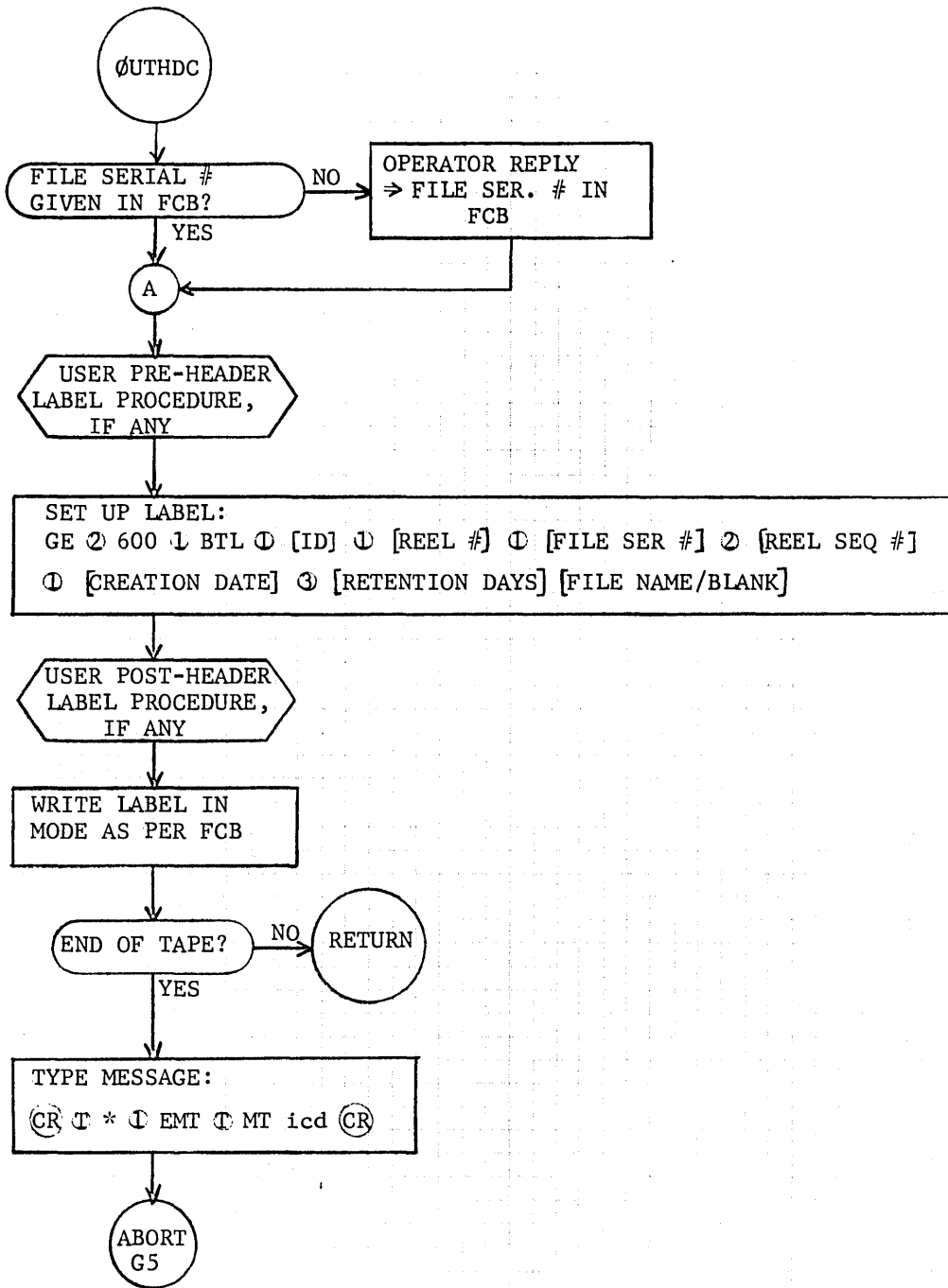


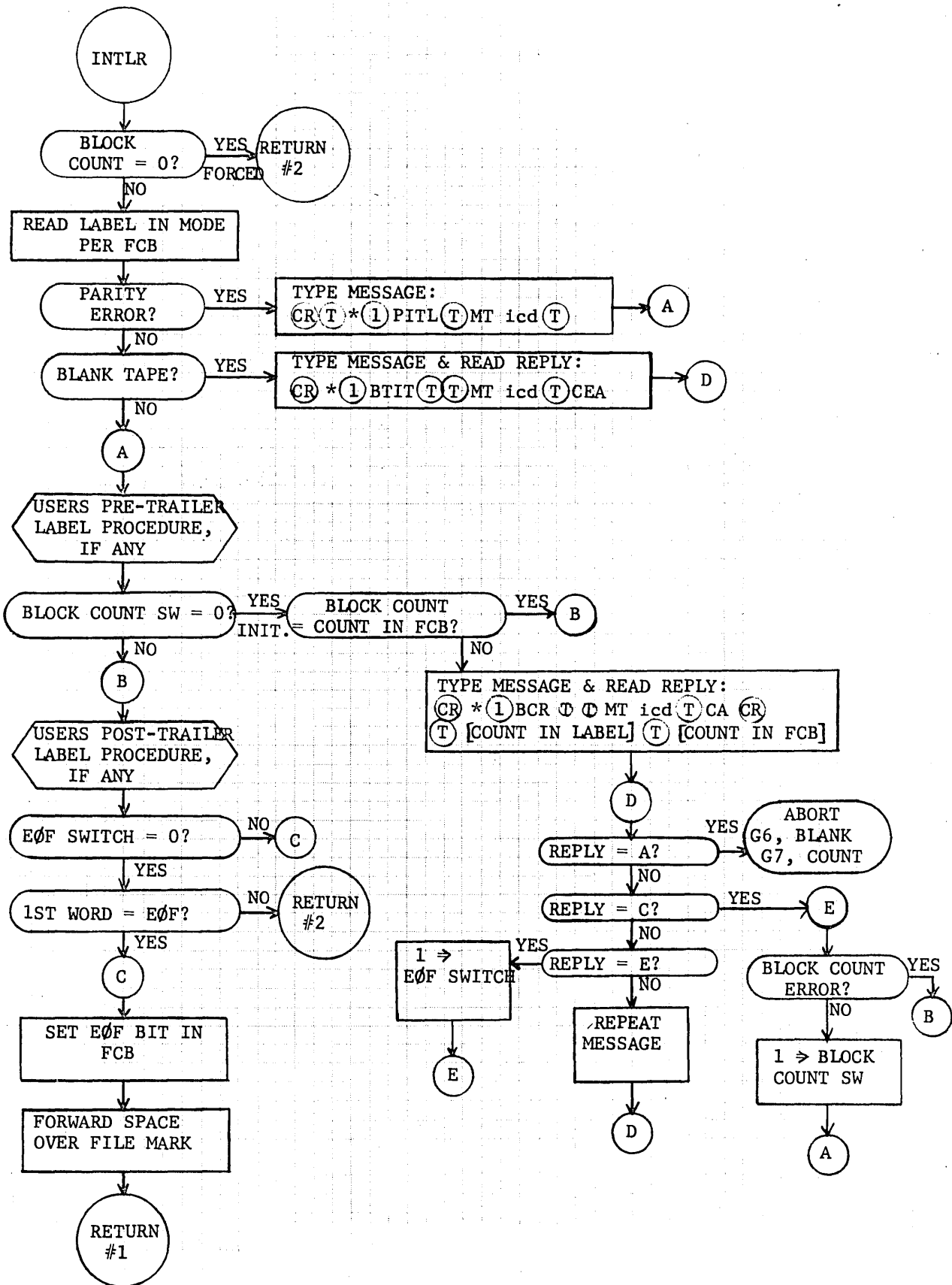


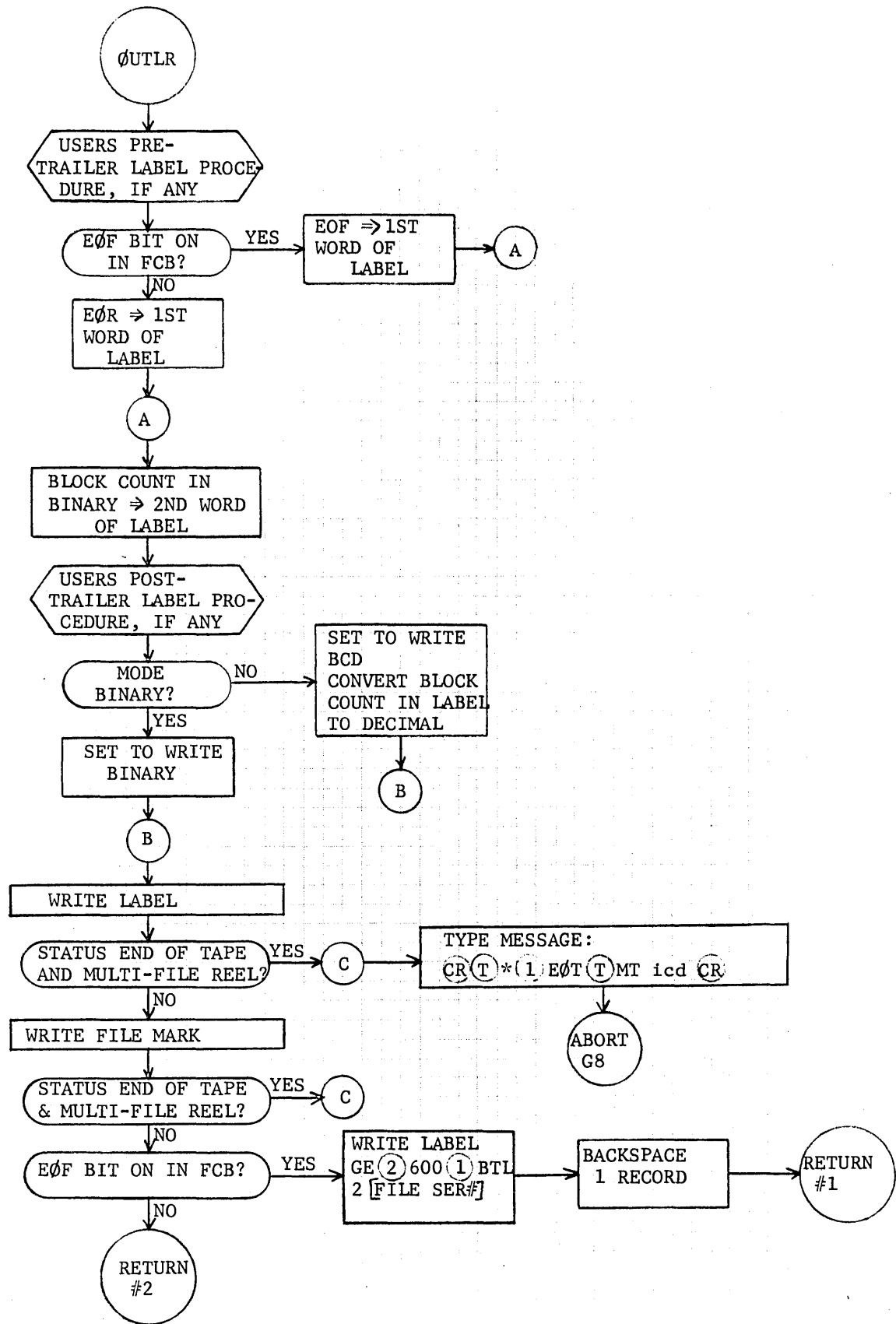


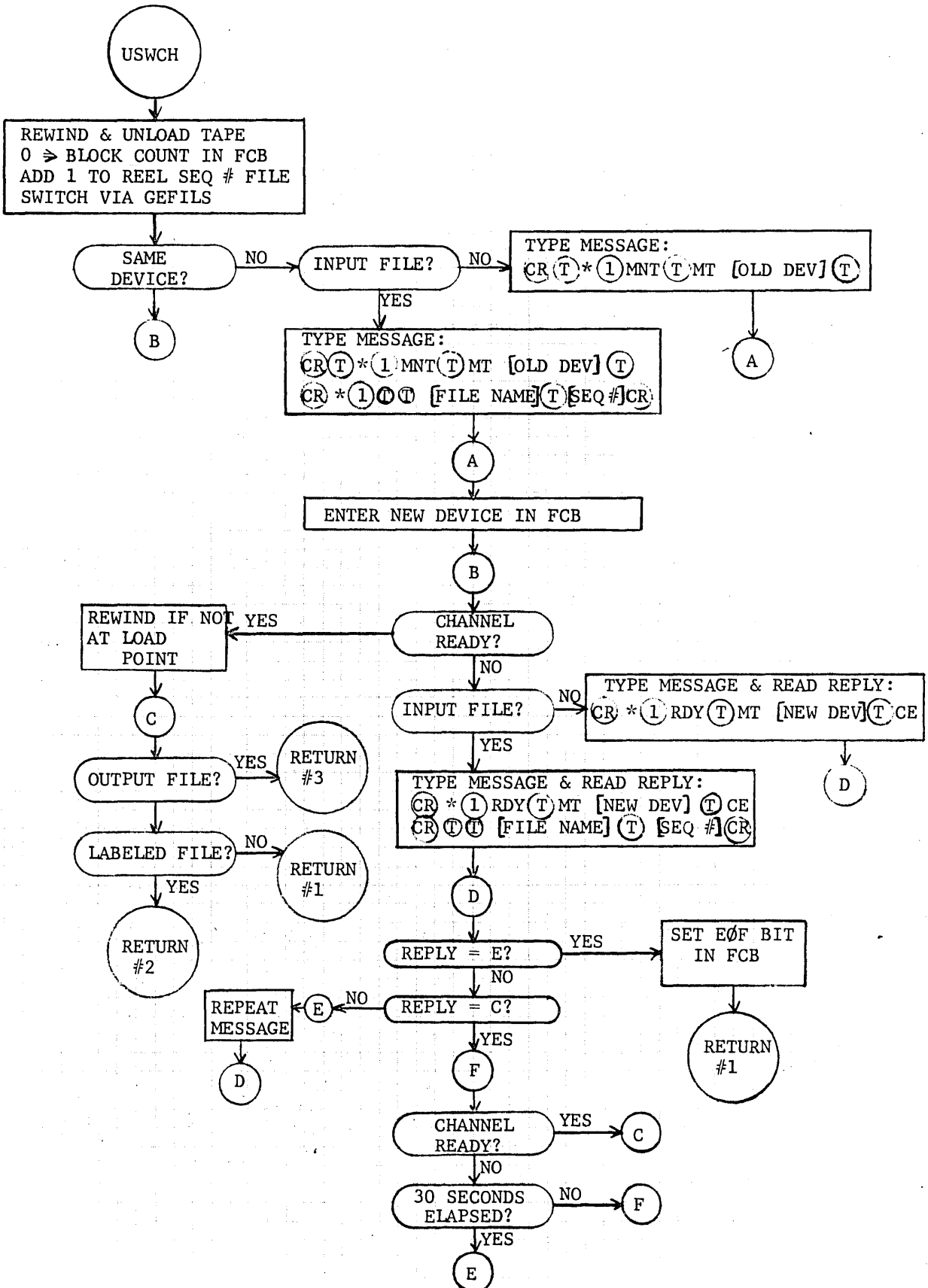












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