

Calling Sequence

- A5: PCT address of calling program
- A6: Scheduled label, if any
- A8: Pointer to user parameter block
- A11: PCT address of D:USV1 or D:RMAC
- A12: Return address (to D:USV1 or D:RMAC)
- A13: CVT address

Work Areas and Tables

- PCT (File Code Table)
- DWT (Drive Work Table)
- LPT (Logical File Table)
- DCT (Disc Control Table)

A 6-word block in the Dynamic Allocation Area for use as work area and a 215-word block if disc I/O is necessary.

Input/Output Files

Disc is used to read in the directory or GRANTR.

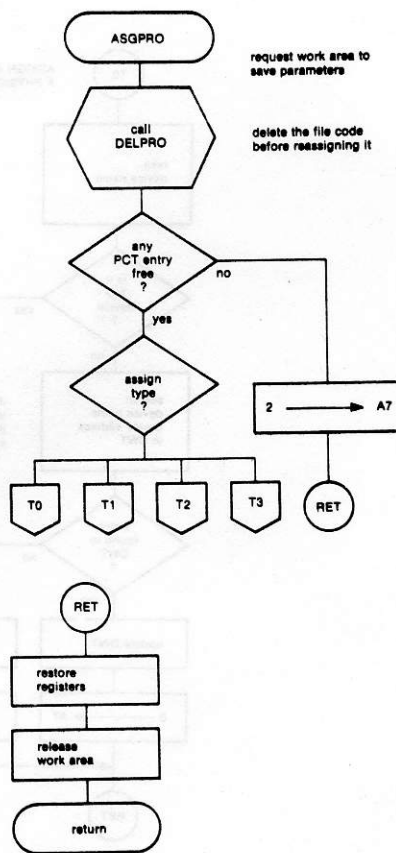
Functional Description

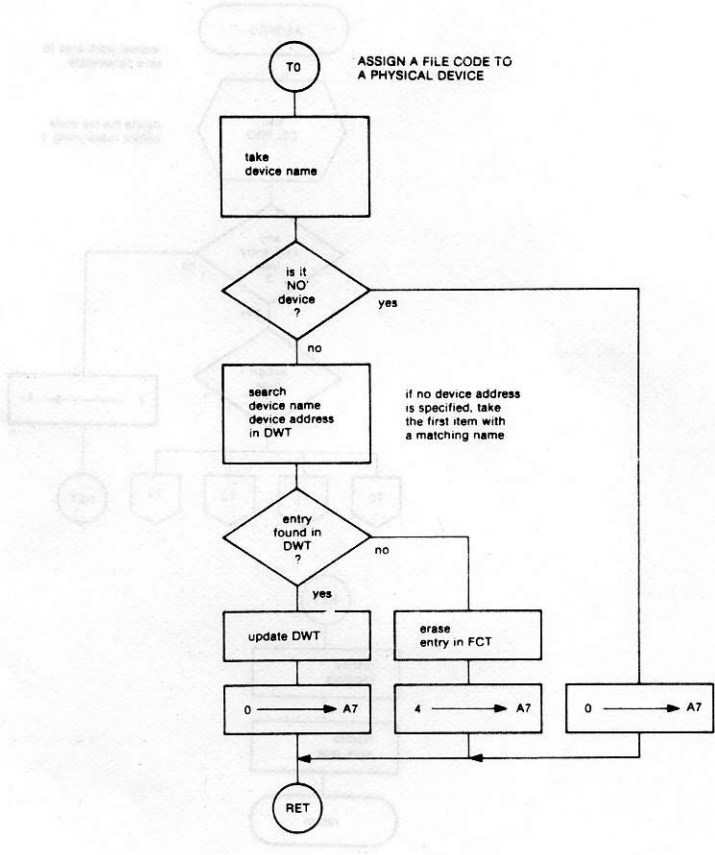
The action taken depends on the type of file code assignment

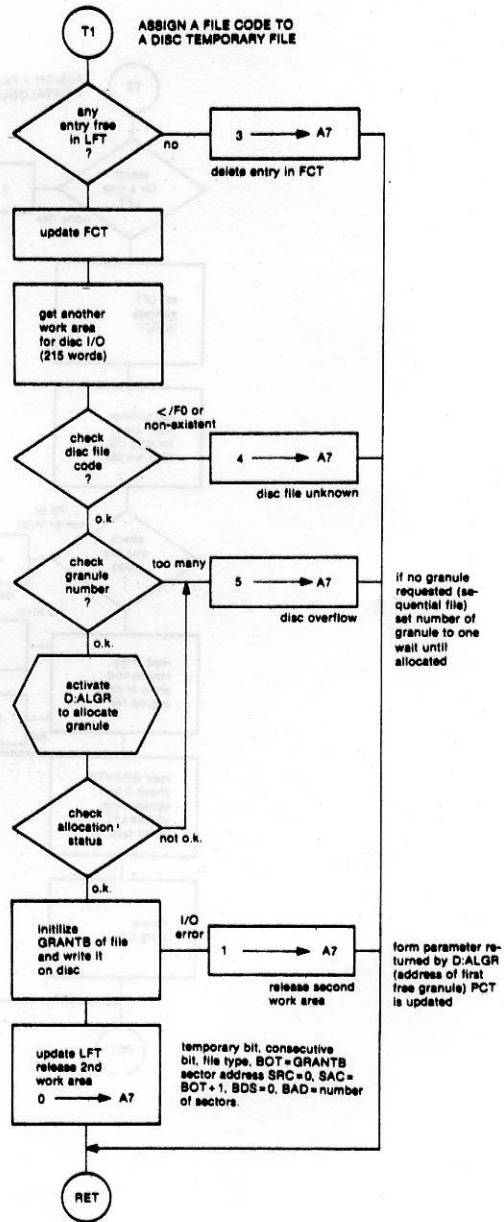
- for physical devices, the Device Work Table is updated
- for disc temporary files, the File Code Table is updated, any necessary granules are allocated, the granule table GRANTR is initialized and the Logical File Table is updated.
- for catalogued files the LPT address is set in the File Code Table, the directory is scanned and, for consecutive files, the Logical File Table is updated.

- for equalizing file codes, the File Code Table is updated. If it is a disc logical file, ASCNT in LPT is incremented as well.

On return, registers A5, A6, A11 and A13 are not destroyed and A7 will contain the status of the operation.

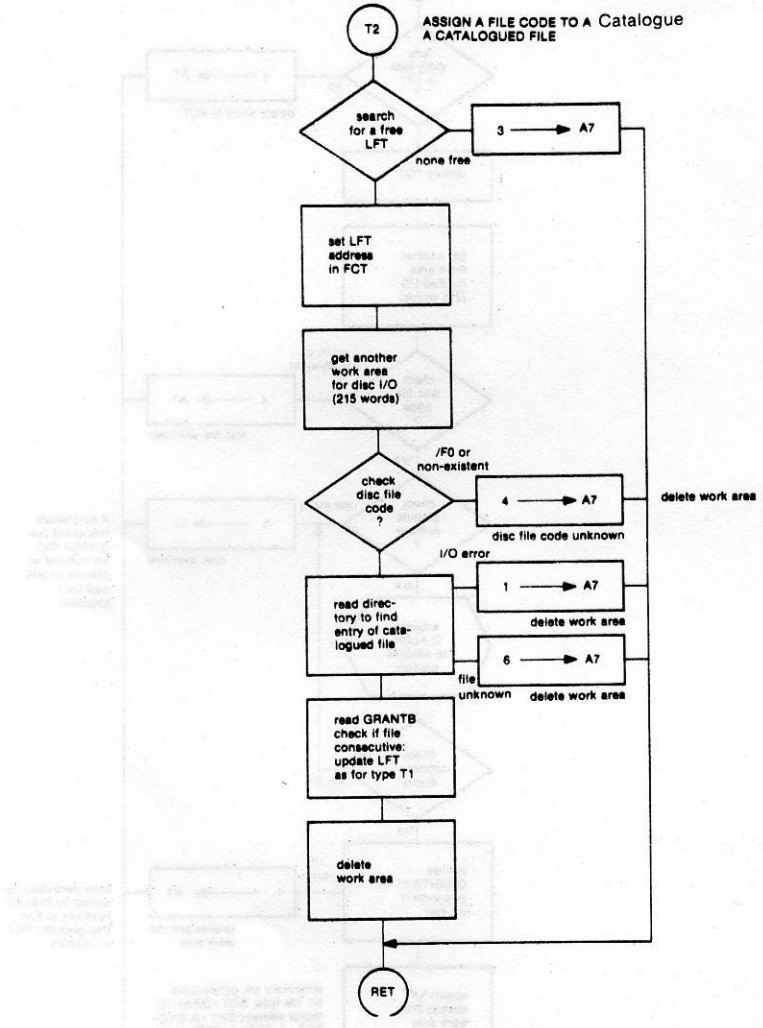


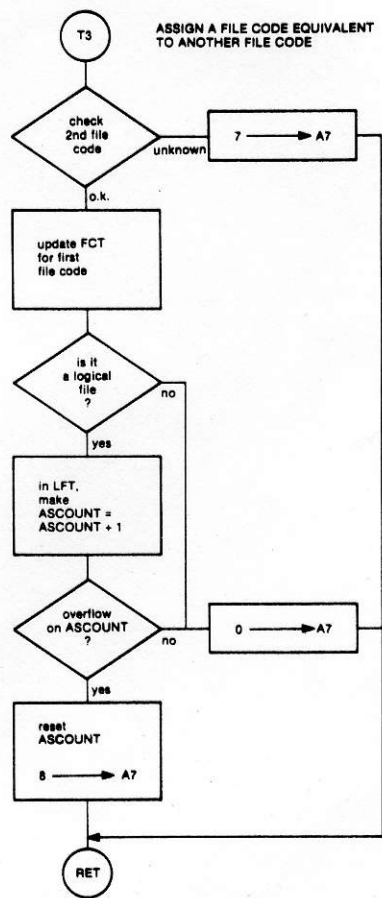




OF 8000 FOR A SEARCH
FOR TRANSPARENT DISC

T2 ASSIGN A FILE CODE TO A Catalogue
A CATALOGUED FILE





DELPHO (DELETE A FILE CODE - LK24)

Calling Sequence

A5: PCP address of calling program

A6: Scheduled label, if any

A8: User parameter block address

A11: PCP address of D:USV1 or D:RMAC

A12: Return address (to D:USV1 or D:RMAC)

A13: CVP address

Work Areas and Tables

FCT (File Code Table)

LFT (Logical File Table)

DCT (Disc Control Table)

A 9-word block in the Dynamic Allocation Area for use as work area and a 215-word block if disc I/O is necessary.

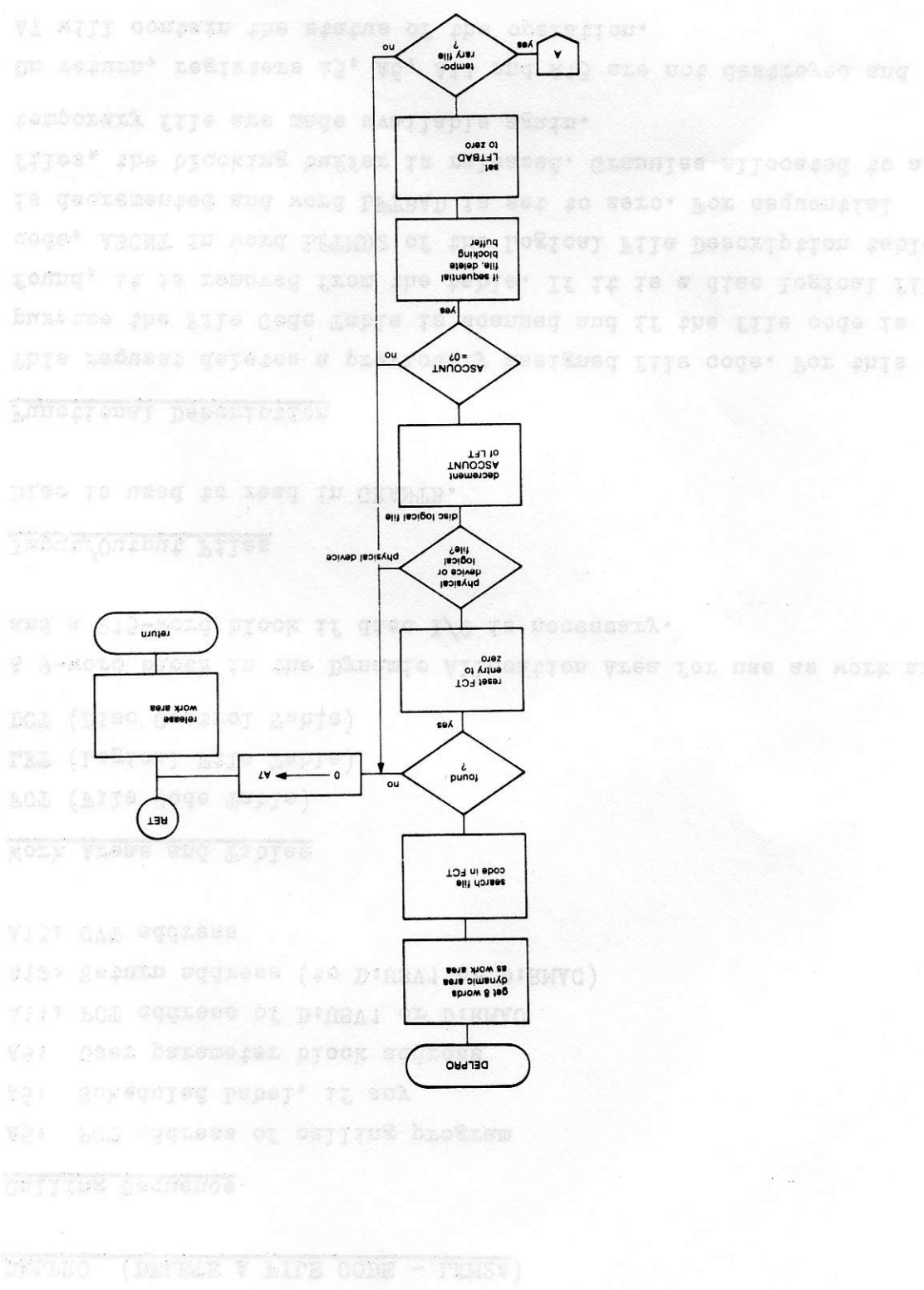
Input/Output Files

Disc is used to read in GRANTB.

Functional Description

This request deletes a previously assigned file code. For this purpose the File Code Table is scanned and if the file code is found, it is removed from the table. If it is a disc logical file code, ASCRT in word LPTM2 of the Logical File Description table is decremented and word LPTB4D is set to zero. For sequential files, the blocking buffer is released. Granules allocated to a temporary file are made available again.

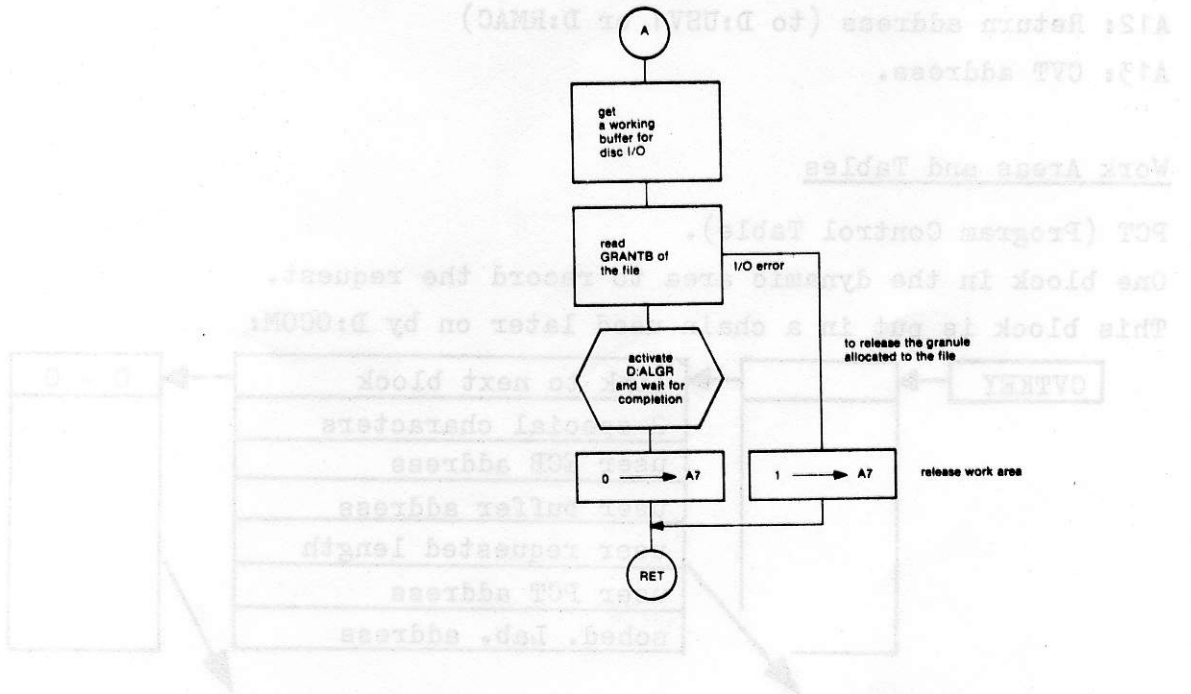
On return, registers A5, A6, A11 and A13 are not destroyed and A7 will contain the status of the operation.



KEYPRO (READ AN UNSOLICITED KEY-IN - LKMS)

Calling Sequence

A5: PCT address of calling program
 A6: Scheduled label, if any
 A7: User A7 (not used)
 A8: User parameter block address
 A4: A8 + 2
 A11: PCT address of current program (D:USV1) where KIBACT contains the address of the event word on which the user is waiting.
 A12: Return address (to D:USV1) (D:RMAC)
 A13: CVT address.



chaining pointer of last entry = 0

format of one block

Input/Output Files

File Code /EF (normally the system typewriter) is used to output the 2 special characters specified by the request to inform the operator that he can enter his message.

Functional Description

When this request is given, the event count is incremented and a 16-word block is requested in the dynamic allocation area. The special characters defined by the user in a 5-word parameter

KEYPRO (READ AN UNSOLICITED KEY-IN - LKM25)

Calling Sequence

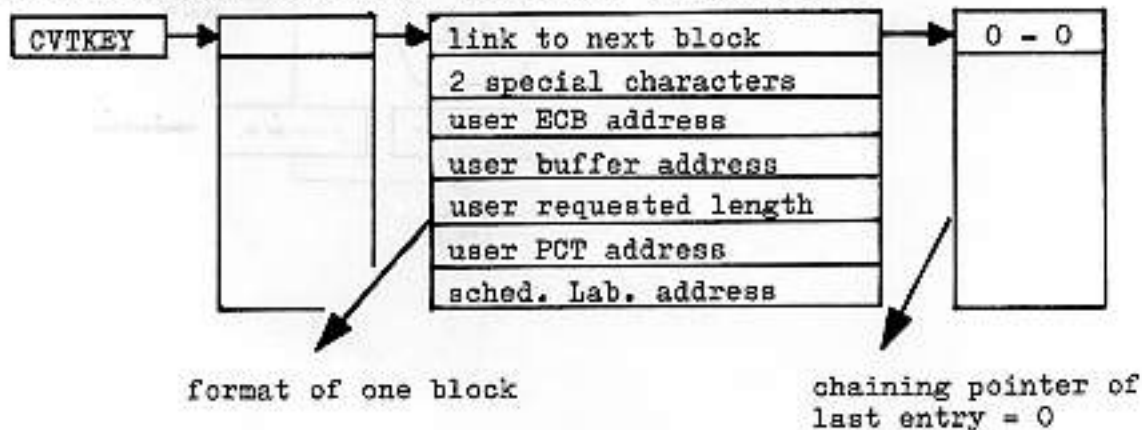
- A5: PCT address of calling program
- A6: Scheduled Label, if any
- A7: User A7 (not used)
- A8: User parameter block address
- A4: A8 + 2
- A11: PCT address of current program (D:USV1) where ECBACT contains the address of the event word on which the user is waiting.
- A12: Return address (to D:USV1 or D:RMAC)
- A13: GVT address.

Work Areas and Tables

PCT (Program Control Table).

One block in the dynamic area to record the request.

This block is put in a chain used later on by D:OCOM:



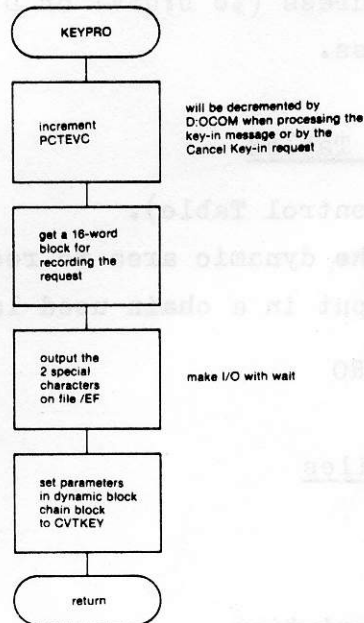
Input/Output Files

File Code /EF (normally the system typewriter) is used to output the 2 special characters specified by the request to inform the operator that he can enter his message.

Functional Description

When this request is given, the event count is incremented and a 16-word block is requested in the dynamic allocation area. The special characters defined by the user in a 5-word parameter

block are output on file code /EF. The user parameter block is chained to word CVTKEY of the Communication Vector Table.



CANKEY (CANCEL AN UNSOLICITED KEY-IN REQUEST - LKM26)

Calling Sequence

- A5: PCT address of calling program
- A6: Scheduled Label, if any
- A7: User A7 (not used)
- A8: User parameter block address
- A4: A8 + 2
- A11: PCT address of current program (D:USV1) where ECBACT contains the address of the event word on which the user is waiting.
- A12: Return address (to D:USV1 or D:RMAC)
- A13: CVT address.

Work Areas and Tables

PCT (Program Control Table).

One block in the dynamic area to record the request.

This block is put in a chain used later on by D:OCCM:

See under KEYPRO

Input/Output Files

None.

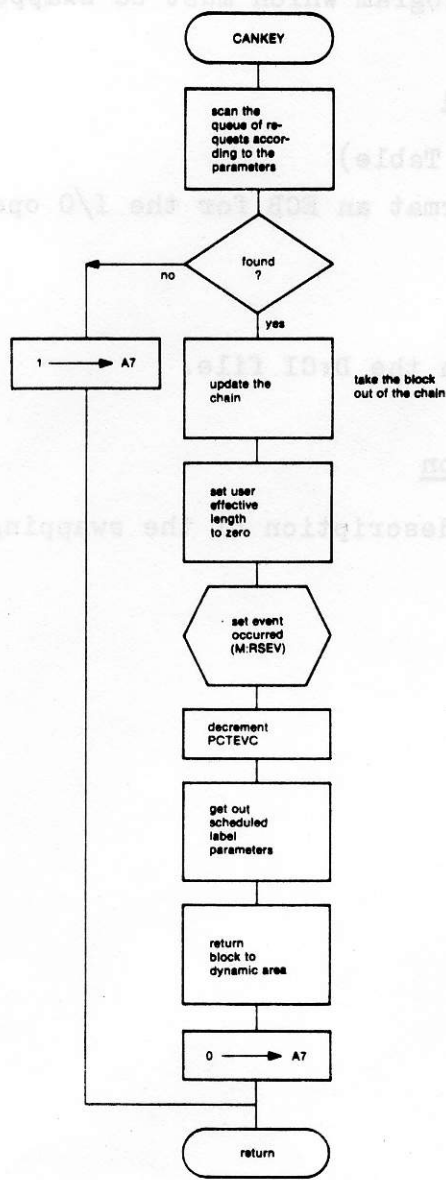
Functional Description

A previously requested unsolicited key-in must be cancelled if it is not used or not required. This involves finding the block with the request's special characters, the resetting of certain parameters, especially event counts, and releasing the block.

Register A7 contains the status of the request after completion: if 0, the operation was successful, if 1, it was not.

Callina Sequence

This module is activated by the dispatcher every time a swappable program must be swapped out of the Swap Area in memory and written on disc in the D:OI file. It normally runs at level 49.
A7: PGT address of program which must be swapped out.



D:SWF (SWAPPING MODULE)

Calling Sequence

This module is activated by the dispatcher every time a swappable program must be swapped out of the Swap Area in memory and written on disc in the D:CI file. It normally runs at level 49.

A3: PCT address of program which must be swapped out.

Work Areas and Tables

PCT (Program Control Table)

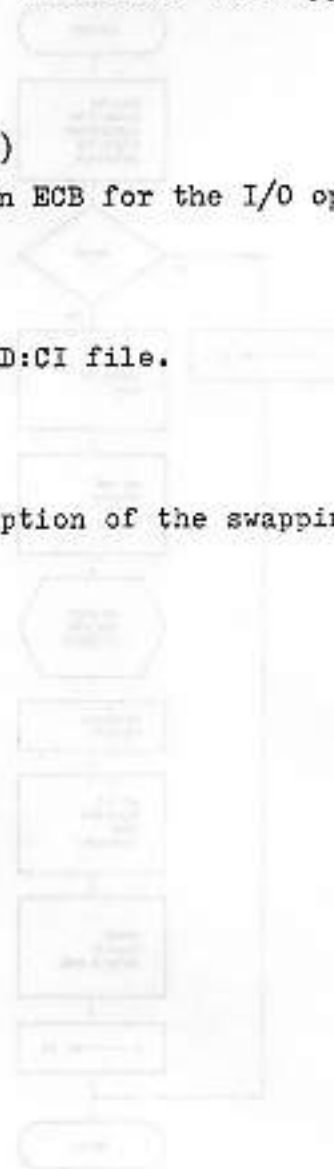
A 6-word block to format an ECB for the I/O operation.

Input/Output Files

This module writes on the D:CI file.

Functional Description

See page 2-17 for a description of the swapping procedure.



DISK FILE MANAGEMENT (M:DMF)

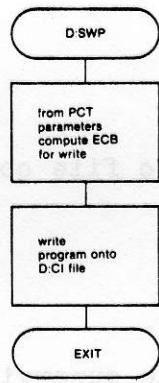
Called Programs

When entry M:DMF requires the address of the logical file description table (L:DFD) of the file on which the operation is to be performed, it is given in the 44 register. It contains the entry point number for D:DMAC, because Disk File Management is part of the D:DMAC program.

Work Areas and Tables

A buffer of 508 words is located in the dynamic allocation area to block and deblock records for sequential files. Two tables are used:

- logical file description table (L:DFD)
- disk control table (D:DCI)



Input/Output Files

Disk File Management uses the 44 register to pass physical I/O operations.

Memory Layout

M:DMF must be link-edited with the linker and is therefore always loaded into the control partition in memory. It cannot be declared as a read-only program.

Functional Description

The M:DMF module performs all I/O operations for sequential files. It is activated by the M:DMF module. For sequential files, it blocks and deblocks records for random files, it calculates the absolute address from the relative sector number and vice versa. M:DMF also allocates any buffers or structures which are required.