

516-43  
LIS  
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### GEBKUP and FLØAD

Individual user or system files on the 516 can be punched in compressed form and later reloaded, using the Executive to call the programs GEBKUP and FLØAD, respectively.

GEBKUP is called as follows:

GEBKUP, NAME1, NAME2, ..., NAME<sub>n</sub>

where NAME1, NAME2, ..., are the names of the files to be punched. For each file, a binary deck is produced (using the 516's GEJOB mechanism), containing the file information packed 3 characters per 2 columns, in columns 3 to 72. Columns 1 and 2 of each binary card contain 3 packed characters representing a character count, a binary card indicator (7-9 punch) and a sum check of the card. Columns 73-80 contain a label (the first 6 characters of the file-name) and a card count.

The binary deck for each file is preceded by a Hollerith card containing a + in column 1, followed by the file name.

If any one of the files requested does not exist or is inaccessible, an appropriate error comment is typed and the program goes on to the next file named in the argument string. All punching information is saved in the 516 until the last file named in the call is processed. Then the punch file is transmitted for punching to the GE Computer and GEBKUP returns to the Executive.

Decks produced by GEBKUP can be read back into the 516 by calling the program FLØAD. FLØAD expects no arguments, but expects the deck of the files to be restored to be in the card reader hopper and the card reader readied for reading.

When a +NAME card is encountered, any old file in the directory having the same name as that on the card is purged and a new file created, with the information contained on the subsequent binary cards. Checks are made for correct check sums and label sequencing. If a read, check sum, or label sequence error occurs, an appropriate error comment is given and FLØAD returns to the Executive.

The information read off each card is stored immediately into the designated file. Therefore, when an error occurs, the user need only restart from the file containing the error. All previous files have been correctly loaded.

Files read by FLØAD are normally loaded into the caller's directory. When in the Master Directory, however, it is possible to create new directories and to load files into those directories, by inserting a Hollerith directory card in front of the deck of files to go to a specific directory. The directory card is punched with a # sign in column 1, followed by the directory name. If the directory name is made up of control characters, a second # sign, in column 2, is used to indicate "control", and the following characters on the card are the equivalent, printable characters of the password. For example, a directory card containing ##XYZ would be interpreted as the password obtained by typing "Control XYZ".

If the user is not in the Master Directory when attempting to create new directories, an error comment will be typed, the directory card ignored and files will be loaded into the caller's directory.

Note that the directory cards are not produced by GEBKUP, but must be prepared by the user, and inserted before the file name card of the first file to be loaded into that directory. Successive files will be loaded into a directory until a new directory card appears in the deck.