



DATA ARRAY HANDLER
PRN 408,407

The data handler stored in PRN 408 is a program that is used to save or transfer data by paper tape. Any of the TODS system DRNs can be dumped on paper tape or loaded from tape back into the system with this routine. The information needed to run the program is the DRN number of the data and how many COM words it contains. The number of COM words is the number of data words in the COM area of ATS BASIC. There is a two to one relation between the number of disk words and COM words in BASIC.

The program stored in PRN 408 is a BASIC program. While it is running it SLINKS to an ASSEMBLY program stored in PRN 407. The assembly performs the I/O functions with the tape punch and photoreader. It also handles the varification if requested.

Upon entry to this assembly program it is assumed that the calling program had the COM area in the proper form. It starts dumping computer memory 14006 words down in COM area and dumps the number of words it was instructed to dump. The 14006 computer memory words is equal to 7003 words in ATS BASIC.

The data handler has three functions. One is to punch a tape of the data stored on the disk. Another is to take the tape that has been punched by the handler and store it back on the disk. The third is to verify that a tape contains the same data as a disk file. The program gives all the instructions needed while running. The user just answers the questions asked and follows instructions given.

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