Bell Telephone Laboratories, Incorporated   - 1 -   PA-1C600-01
PROGRAM APPLICATION INSTRUCTION   Section 7 (V)
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AT&TCo SPCS

TP(V)   **TP(V)**

NAME

tp – DEC/mag tape formats

DESCRIPTION

The command *tp* dumps files to and extracts files from DECtape and magtape. The formats of these tapes are the same except that magtapes have larger directories.

Block zero contains a copy of a stand-alone bootstrap program. See *boot procedures* (VIII).

Blocks 1 through 24 for DECtape (1 through 62 for magtape) contain a directory of the tape. There are 192 (resp. 496) entries in the directory; 8 entries per block; 64 bytes per entry. Each entry has the following format:

path name	32 bytes
mode	2 bytes
uid	1 byte
gid	1 byte
unused	1 byte
size	3 bytes
time modified	4 bytes
tape address	2 bytes
unused	16 bytes
check sum	2 bytes

The path name entry is the path name of the file when put on the tape. If the pathname starts with a zero word, the entry is empty. It is at most 32 bytes long and ends in a null byte. Mode, uid, gid, size and time modified are the same as described under i-nodes (file system (V)). The tape address is the tape block number of the start of the contents of the file. Every file starts on a block boundary. The file occupies (size+511)/512 blocks of continuous tape. The checksum entry has a value such that the sum of the 32 words of the directory entry is zero.

Blocks 25 (resp. 63) on are available for file storage.

A fake entry (see *tp* (I)) has a size of zero.

SEE ALSO

file system (V), tp (I)