PROGRAM TITLE: BLOCK TRANSFER PROGRAM FOR MAGNETIC
                             TAPE UNITS WITH RECOMP II

PROGRAM CLASSIFICATION: General

AUTHOR: S. M. Chamberlain
                             Autonetics

PURPOSE: The purpose of this program is to provide
                             a rapid method for transfering blocks of
                             information on magnetic tape to different
                             blocks on the same tape or to another
                             tape. The program uses the subroutines
                             and procedure described in RUP No. 1129.
                             This program can be put on magnetic tape.

DATE: 15 March 1962

Published by

RECOMP Users' Library

at

AUTONETICS INDUSTRIAL PRODUCTS

A DIVISION OF NORTH AMERICAN AVIATION, INC.

3400 East 70th Street, Long Beach 5, California

PROGRAM TITLE: BLOCK TRANSFER PROGRAM FOR MAGNETIC TAPE UNITS
WITH RECOMP II

_ _

PURPOSE

The purpose of this program is to provide a rapid method for trans-
fering blocks of information on magnetic tape to different blocks on
the same tape or to another tape. The program uses the subroutines
and procedure described in RUP No. 1129. This program can be put on
magnetic tape.

GENERAL METHOD USED

Each block is read into a given channel in memory. It is then written
back on tape. The reading and writing are done using the subroutines.

RESTRICTIONS

Only blocks which were written on the tape using the subroutines and
procedures described in RUP No. 1129 can be transfered.

The program must use the subroutines described in RUP No. 1129.

The program is located in locations: 7000 - 7051
It uses locations: 7100 - 7177.

OPERATOR'S INSTRUCTIONS

Enter program tape and subroutines.

Sense Switch B should be ON.

Sense Switch C should be: ON if you want to first rewind the tapes
used.
OFF if you do not want to first rewind the
tapes used.

Set L 7000.

Enter key word #1: $+U_1B$ $BBBB_1.0+U_2B$ $BBBB_2.0$

where: U_1 = tape unit read from.

U_2 = tape unit written on.

PROGRAM TITLE: BLOCK TRANSFER PROGRAM FOR MAGNETIC TAPE UNITS
                 WITH RECOMP II

- -

$BBBBB_1$ = first block read

$BBBBB_2$ = first block written.

Enter key word #2:   +0B $BBBB_3$.0+00   0000.0

where: $BBBBB_3$ = last block read.

Push START.

```
                    ┌─────────────┐
                    │  operator   │
            ┌──────►│ enters key  │
            │       │   Words     │
            │       └──────┬──────┘
            │              │
            │          ╭───────╮
            │          │ START │
            │          ╰───┬───╯
            │              │
            │       ┌─────────────┐
            │       │ Set up Read │
            │       │ and Write   │
            │       │ Calling     │
            │       │ Sequence    │
            │       └──────┬──────┘
            │              │
            │         ╭─────────╮    Yes    ┌───────────┐
            │         │ Rewind  ├──────────►│  Rewind   │
            │         │ Tapes ? │           │ tapes and │
            │         ╰────┬────╯           │  Check    │
            │            No │               └─────┬─────┘
            │              │                      │
            │       ┌─────────────┐               │
            │       │ Read a      │◄──────────────┘
            │       │ block Into  │◄───────────────┐
            │       │memory/channel│               │
            │       └──────┬──────┘                │
            │              │                       │
            │       ┌─────────────┐                │
            │       │ Write       │                │
            │       │ channel back│                │
            │       │ on tape     │                │
            │       └──────┬──────┘                │
            │              │                       │
          ╭─────╮  Yes ╭─────────────╮             │
          │ HTR │◄─────│ last block  │             │
          ╰─────╯      │ to Transfer?│             │
                       ╰──────┬──────╯             │
                           No │                    │
                       ┌─────────────┐             │
                       │ Modify Read │             │
                       │ and Write   ├─────────────┘
                       │ Calling     │
                       │ Sequences   │
                       └─────────────┘
```