PRELIMINARY INSTRUCTIONS

FOR

LEVEL I TO LEVEL II PROGRAM CONVERSION

AND

DATA CONVERSION

Program Conversion

The 'Level-I to Level-II Conversion Program' converts a program written in Level I Basic for the TRS-80, to make it compatible with Level II.

The Conversion program is loaded under the 'SYSTEM' command in LEVEL II BASIC. The file name for the program is 'CONV'.

After the program is loaded its execution is started by typing in a '/' followed by its entry point which is 19190 for a 4K machine and 31478 for a 16K machine.   4AF6   7AF6

The program starts off by prompting you to read in the LEVEL I tape that you want to convert, with the message:

'LOAD TAPE & PRESS ENTER'

If the tape does not get read in properly the above message will be displayed again. Rewind the tape and try to read it in again.

If the program is too long to be read in, the computer will print:

'PROGRAM TOO LONG'.

and will return control to BASIC.

If this happens and you have a 4K machine, try to do the conversion on a 16K machine. If you get the same message on a 16K machine, you will have to do the conversion yourself.

After the LEVEL-I tape is read in, the computer will prompt you with

'PRESS ENTER TO BEGIN'.

When you press ENTER, the conversion program will start converting your program. It may take anywhere between 1 second and 1 minute to do this, depending on the size of the program being converted.

If the conversion is completed, the computer will prompt you with:

'CONVERSION COMPLETE
PRESS ENTER TO CONTINUE.'

If you now press enter you will be returned to BASIC (with a 'READY') with

the converted program in memory. You may then 'LIST', 'CSAVE', 'EDIT', RUN or perform any of the normal BASIC 'functions' with the program.

It is possible that during conversion your program might become too large to be held in available memory. If that happens the computer will print

'PROGRAM TOO LONG'

and will return control to BASIC. Follow the instruction/mentioned earlier for this message.

NOTE: If you have used an array in the LEVEL-I program, you might need to insert a DIM statement in the converted program, before you 'RUN' it.

If you want to execute the conversion program more than once without having to reload it each time, you will have to reserve some memory for it. This is done by entering a suitable number for memory size on power up.

For a 4K machine enter the number 19189. For a 16K machine enter the number 31477.

Data Conversion

The 'Data Conversion' Program converts data as punched on tape by the 'PRINT #' statement in LEVEL I Basic, so that it can be read by the 'INPUT #' statement in LEVEL II Basic.

Before the program can be used, an explanation on the format of data on the data tapes punched by the 'PRINT #' statement is needed. The data on the tape is in the form of blocks following one another. Each block consists of all the data punched out by the execution of a single 'PRINT #' statement. During the course of execution of a BASIC program a number of such blocks maybe punched out on tape. The Data Conversion program reads a block at a time, which then has to be punched out.

The Conversion Program is loaded and executed under the SYSTEM command in LEVEL II BASIC. Its file name is 'DCONV' and entry point is 17152.   4300

The program begins by asking you to read in the LEVEL I data tape. It reads in a block and then prompts you to punch it out on a new tape.

Remove the old tape, but do not rewind it. There maybe more data that needs to be converted. Then insert a new tape (called the LEVEL II tape) and punch out the data.

After the program punches out the converted data, it will ask you if you have more data on the LEVEL I tape. If you do, remove the LEVEL II tape. Again, do not rewind it, you will need to punch more data on it. Then reload the LEVEL I tape and read it in. Punch out the data on the LEVEL II tape.

Repeat the above procedure until all the data on the LEVEL I tape has been converted and transferred to the LEVEL II tape. To find out if all the data has been transferred, keep reloading the LEVEL I tape until the 'Conversion Program ' fails to read the tape. If the program fails to read in the tape, it will not print '**' in the upper right hand corner of the screen and the tape-deck will keep moving.

If you do not see the '**' on the screen and nothing happens for a while, there

is no more data on the tape. You can then press the reset button, which will return control to BASIC. You can return to the program again under the SYSTEM command and convert more tapes.

NOTE: If at anytime the LEVEL I tape is not read in correctly, the computer will print 'INPUT ERROR'and will ask you to read in the data again.