

BXREF  
BASIC Crossreference Listing Program  
for the TRS-80 (Model I with disk)  
by Software Etc.

This program reads a saved BASIC program from disk and optionally prints it. Then it prints an alphabetized list of all variables used in the BASIC program, listing all statement numbers where each variable is used. After the variables follows a similar list of all referenced statement numbers (i.e. all statement numbers used in a GOTO, GOSUB or RESUME). Statement numbers which do not exist are flagged as undefined.

Features:

1. Flags all undefined statement numbers.
2. Optionally prints on a new line each statement of a multi-statement BASIC line.
3. Output to printer, screen or disk file.
4. Written in assembler so it is FAST.
5. Does not tie up memory with the BASIC program.
6. Outputs page numbers & heading (except to screen).
7. Automatic file name, date & time in page heading.
8. Paging adjustable for almost any page-width or length.
9. Simulated or hardware form-feeds.
10. Does not require the Basic program to be ASCII.

Operation

To run BXREF, when "DOS READY" appears, type:

BXREF(enter)

BXREF then prompts:

FILE NAME-OPTIONS?

to which the user must respond with the filespec of the input file followed by any options desired. The input file must be a BASIC program saved without the "A" option. BXREF options follow the filespec on the same line, each option preceded by a minus sign. For example:

REPORT/BAS:1-S-W64

specifies an input file named "REPORT/BAS" in disk drive 1. Then the "-S" indicates form-feeds are to be simulated with the appropriate number of line-feeds and "-W64" indicates that the assumed maximum line width of the printer is 64 columns.

A complete list of all available options follows:

-W(number)

This option specifies the assumed width (in columns) of the output. This value must be in the range 16 to 132. If this option is not specified, the width will be set at 80 columns.

-H(number)

This specifies the total assumed page height (in lines) including headings and blank lines at the top & bottom of each page. If this option is not specified, the height will be set at 66 lines.

-I(number)

This option specifies the number of columns to indent for continuation of lines longer than the assumed page width. If it is not specified, it will be set at 5 columns.

-O

This prints one statement per line. That is, each statement of a multi-statement BASIC line is printed starting on a new line. This is very useful in analyzing "dense" BASIC programs.

-N

This option, when specified, suppresses listing of the BASIC program. Only the cross-reference list is output.

-S

When specified, this indicates that form-feeds are to be simulated. That is, BXREF spaces to the top of each new page by computing and outputting the required number of line-feeds. If this option is not specified, BXREF outputs a single form-feed character to skip to the top of a page.

-D

This specifies that output is to the screen (CRT display). This option automatically selects a page width of 63 and page height of 16. No page numbers or headings are output; rather, the display stops after each page. To view the next page, depress any key or (for VTOS users) to terminate BXREF, depress the BREAK key.

-F

This specifies that output is to go to a disk file. The filespec will be requested after the heading prompt.

After the FILE NAME-OPTIONS? prompt, if output is not to the display (i.e. if the -D option is not specified), the next prompt requests the heading:

HEADING?

Type the heading desired. If the date has been set with the DOS DATE command, the date and time automatically appear in the heading followed by the heading supplied by the user at this point. In all cases the filespec of the input file appears in the heading at the extreme left.

If the -F option was selected, then the output file prompt appears:

PRINT FILE?

At this point type the filespec of the desired output file.