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RL Monitor Listing Utility Programs

TIDY, LISTER, and SNOLST

Since space is limited in RL files, and since people are lazy
when typing, code typed into RL files is usually very compact and
unreadable.

Since the List monitor command prints the source entirely as typed
in, this procedure will not give you neat listings. Therefore several
utility programs are provided which help you make neat formatted listings.

TIDY:

This program is used to make neat listings of files containing code
for assembly language programs. It lists the lines with statement labels
in one column, operands beginning in another column, and comments, if
any, neatly starting in another column on the far right. RL line numbers
are also printed on the left hand side of the page.
TIDY is initiated by the command

RUN BIN,TIDY=2ØØ

on a tape containing the binary file, TIDY. (The source for TIDY is
stored in the source files called TIDYØ, TIDY1, and TIDY2).
TIDY will then begin execution. It is ready after the teletype goes
"kerplunk" twice. At this point, you may either type in a command to
TIDY or the name of a file to be listed.
If you type in a file, its name must be 6 characters or less and
terminated by a carriage return. TIDY will then list the file. If it
cannot find a file by that name in its catalog in core, it will assume
that you switched tapes on it and so it will reread the catalog of the
tape that is then currently mounted. If at this point it still cannot
find the named file, it will print NOT FOUND and then wait for a new
file name or command. While TIDY is listing, you can stop the listing
prematurely by typing any character.
There are two commands to TIDY: *SYS and *TERM .
Typing *SYS tells TIDY to read in a new catalog from the tape.
*TERM tells TIDY that you are finished listing and it will bootstrap
by branching to location 76ØØ.
If at any time while entering a filename or command, you type more than
six characters and the seventh character is not a carriage return,
TIDY will type ZAP and ignore your line. There are no other ways to
correct typing errors.
TIDY is always restartable at location 2ØØ.
TIDY uses EAE. The user who does not have EAE should be able to remove
the EAE instructions from TIDY.
If the user has some high speed printing device, such as a line printer,
TIDY is easily modified to use this device instead of the teletype. The
source code for TIDY contains only one output section which can readily
be rewritten to accommodate any other output device.

RL Monitor Listing Utility Programs

<u>TIDY</u>, <u>LISTER</u>, and <u>SNOLST</u>

LISTER:

This is a SNOBOL program which is used to make neat listings of assembly language programs for final documentation purposes. It is slower than TIDY, but gives page numbering and headings and does not list RL line numbers, but attempts to give core addresses for where each statement will be loaded during execution time. LISTER is run from a tape which contains POLY SNOBOL as a system by the command

$$\text{RUN SNOBOL,LISTER,file}_1\text{,file}_2\text{,...,file}_n$$

where file_1, file_2, ...,file_n are the names of the RL source files which contain the program to be listed. n must be less than 15. All these source files must be on the same tape as LISTER and POLY SNOBOL.

The paper in the teletype should be adjusted to the spot where you want the listing to start. If you have a model 35 teletype, LISTER will eject to the top of a new page when it gets close to the bottom of a page. Each new page will contain a heading and these pages will be numbered successively. Before starting the program, you can specify the heading (title) by typing it into the source file called LISTER. The next to the last source statements are statements which you may change and which affect your listing. The next to the last source statement contains the title which will be printed out on the top of each page. The last source statement contains the number which will be the first number used when numbering your pages. It must be a two-character decimal number. If you want your pages numbered starting at page six, this last line should contain a $\emptyset 6$ at its beginning.

SNOLST:

This is a SNOBOL program which is used to make neat listings of your SNOBOL programs. It is similar to LISTER in that it does not list RL line numbers and lines your source up into 4 columns- a label field, a subject field, an object field, and a goto field. It is run by the command

$$\text{RUN SNOBOL,SNOLST,file}_1\text{,file}_2\text{,...file}_n \quad .$$

LISTIT:

This program is used to make sort of neat listings of assembly language programs. Its source files are called SEND and IT. This program has been obsoleted by the program TIDY so is not being distributed through DECUS. It is still used at times at the Polytechnic Institute of Brooklyn for sentimental reasons.