

October 9, 1964

CTSS BULLETIN # 57

SUBJECT: LØAD Command - A new version

Purpose

The LØAD command has been reorganized in order to provide greater flexibility and speed in loading programs from various libraries. Programs and files may be loaded or searched as libraries in the user's file, Common files and several System files.

Implementation

The new version of LØAD is now available as LØAD SAVED in the public file. The complete new library, as explained in a separate bulletin, is not yet available. CSLIB may be used from the public file and people using CTEST8 version of MAD may use this new loader with MADLIB in the public file. When the new versions of LOAD, MAD and TSS library are put into effect as the standard commands, the message of the day and a corresponding CTSS bulletin will be issued.

In order to provide an easier transition, the new loader will temporarily provide the facility of using the old loader and the old library. This facility will be somewhat slower than the old loader.

LØAD (ØLD)....

This will cause the old loader and the old library to be used instead of the new. LØAD may be LØADGO, NCLØAD, or VLØAD. The old loader and library will not be actively maintained and may be discontinued or move to the public file at some later date.

Usage

Call Sequence

$LINK [arg_1] [arg_2] [arg_3] [arg_4]$

arg_1 may be $LINK$, $LOAD$, $UNLOAD$ or $FILED$.

arg_2 is optional and may appear anywhere in the list of arguments. (LINK) directs the loader to set the starting address to the lowest entry point of the next routine loaded. This allows the execution of a program without a MAIN routine or it allows the program to be started at some point other than the (MAIN) entry.

arg_3 may be a list of PDS files to be loaded from the current file-directory. Initially, the current file-directory is either the user's file-directory or a common file set set by a BONNIE command.

If any arg_4 is (LINK), the following arg_{i+1} within the current file-directory is searched as a library. If an attempt to find any missing routines.

If any arg_4 is (SYSL) the following arg_{i+1} in the current file-directory is searched as a library.

If any arg_4 is (MIB), the system library will be searched for missing routines after the argument list has been processed. An argument of (LIB) precedes (LINK).

Switch is an optional argument which defines the location of the current file-directory and some other specified file-directories. Switch may be (OFF) where n is the number of the volume file (1,2,3,4,5).

The arguments are the same format as the following.

There may be any number of volumes and each volume may contain any number of routines.

Once the argument list has been processed, the loader will use only TSLIB1, if allowed, to search for any missing subroutines.

The user is switched to his own file-directory during the NEED messages. Upon completion of the loading, the current file-directory is switched back to its initial status.

Library

The new library will consist of 3 or more files instead of a single file. These files will be searched separately, thus speeding up the loading process.

TSLIB1 BSS is the "STANDARD" library and contains all subroutines except the "DEBUG" library and special users or "RESTRICTED" libraries.

TSLIB2 BSS is the "DEBUG" library which contains FLEXPM, STRACE and FAPDBG.

KLULIB BSS is the first of a series of "RESTRICTED" libraries for special users and it contains all routines used in connection with the KLUDGE.

NOTE: if a user calls TRACE as a subroutine, it will not be found unless he specifies (SYS) TSLIB2 in the LOAD command. On the other hand, TSLIB2 will be searched automatically when the user uses the debug commands such as PM or FAPDBG.

Modifications and Corrections

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