SUBJECT: MAD - A New Improved Version

Purpose:

A new compiler from the University of Michigan is now available which more closely implements the language described in the MAD Manual, November 1963.

Restrictions:

Because of some I/O changes, a new library must be used in order to execute programs compiled by the new MAD. (See USAGE)

This version of MAD is available only as CTEST8. Sometime in the near future, it will replace the MAD command.

What's New?

Three items described in the MAD Manual, November 1963, which are not available in the current version, are now available in CTEST8:

1) Simplified input-output statements (page 37).
2) Definition of operations (page 100).
3) Abbreviations (page 98).

Three additional improvements have been made to the compiler:

1) External functions save and restore index registers 1 and 2.
2) Listing files may be created upon request, "(LIST)".
3) A special symbol table file may be requested "(SYMB)".

References


Usage

Call Sequence: CTEST8  PROG  (LIST)  (SYMB)

Prog is a file called PROG MAD which is to be translated.
L1ST is an optional parameter requesting a listing file.
A line marked file called PROG.BCD will be created;

SYMTAB is an optional parameter requesting a symbol table file. Only if compilation is successful will the file called PROG.SYMTAB be created. This is a special file which will be useful shortly with the new M4D debugging routines.

The order of (L1ST) and (SYMTAB) is not important.

Because of the I/O change, a new library must be used to execute programs compiled by the new M4D. This library may be copied from the public files by

COPY P M4DLIB BSS

and used as a library during loading as an argument to the loader

LOAD PROG (LIBE) M4DLIB

in order for loading to take place correctly, the M4DLIB BSS file must be searched as a library file and must be given before the regular library is searched, i.e., before NEED, etc. might be typed.

If it is preferred not to copy the M4DLIB file from comfil P, then one may use a test loader, "CTEST3". This loader loads from common files by using the parameter "(CFLn)" where n is the comfil number (1,2,3, etc., P). However, this loader requires a first argument to define the type of load desired, such as "LOAD", "NCLOAD", "VLLOAD". An example of its use for a regular load would be:

CTEST3 LOAD PROG (CFLP) (LIBE) M4DLIB (CFLQ) NYLIB

where "(CFLP)" sets back to my file directory and NYLIB BSS is a BSS file that will be loaded completely. More information about CTEST3 can be found in MAC=M-159.