5 Sending CIF files to MOSIS

MOSIS is the DARPA silicon broker, and accepts CIF files directly. Certain administrative information must be pre-pended to the file, to confirm authorization and to identify projects. To generate this information automatically, a filter program called MOSIS exists. MOSIS accepts `.CIF` files as input, and generates `.MOSIS` files which are ready to be e-mailed to MOSIS.

The syntax of the program is:

MOSIS <-flags> <cif file name>[.cif]

The program will automatically append .CIF to the input file name, and generate an output filename (<input file name>.MOSIS) if none is supplied. In general, no flags need be supplied, and the program will automatically generate a reasonable set of defaults for the user name, identification, e-mail address, etc. The flags are used to change these defaults:

-m<string> – by default, the mailing address is `ces@csvax.caltech.edu`. The "m" flag replaces that with <string>.

-f<string> – by default, the user's full name is <chipmunk user name>. The "f" flag replaces that with <string>.

-n<string> – by default, the project name is take from the filename, and is <cif file name>. The "n" flag replaces that with <string>.

-d<string> – The "d" flag sets the one-line project description to <string>. By default, no description is generated.

-i<string> – set input technology (SCG, SCGE or CBPM2), if different from output technology.

-t<string> – by default, the technology is generic CMOS-bulk (SCG). If translation to/from another process is desired, use "-i<tech name>" to specify the input technology, and "-t<tech name>" to specify the output technology. Valid technologies are SCG, SCGE, and CBPM2. Talk to the system administrator to find out what these are.

-q integer – Makes a special request for a certain number of bonded parts. Large requests should be cleared with MOSIS first.

-b<string> – Tell MOSIS to bond this project using the pinout of project <string> (specify either the project-id or fab-id of the previous project).

The `.MOSIS` file that is generated is then ready to mail to MOSIS. Currently, the way to do this is to transfer the file to a UNIX machine with ARPANET access, and type **mail mosis@cheeta.isi.edu < file.MOSIS**