

## VI.E. INTERACTIVE INPUT TO SAMMY

SAMMY was designed to run interactively, with the user supplying appropriate responses to questions asked by the code. A command file may be prepared, containing the interactive input.

Table VI E.1 lists the questions asked by SAMMY for a simple run and describes appropriate responses. A similar list for all possible input files (some of which are mutually incompatible) is given in Table VI E.2. For detailed examples of more complicated runs, see the SAMMY test cases as discussed in Section XII.B. For each test case, the command file for Unix or Linux runs is “testxyz” (where “xyz” is the 3-digit test case number). Equivalent command files for Windows runs are called “test.bat”.

The maximum length for a file name to be used as input to SAMMY is 70 characters.

**Table VI E.1. Input for a typical SAMMY run starting with a new parameter file**

SAMMY Prompt	User Response
1. What is the name of the INPut file?	INPut file name plus extension, for example, AAAAAA.INP*. Maximum number of characters is 70.
2. What is the name of the PARAmeter file?	PARAmeter file name, for example, AAAAAA.PAR*. Maximum number of characters is 70.
3. What is the first data file name? EMIN? EMAX?	DATa file name, for example AAAAAA.DAT*, followed by the minimum and maximum energies (in EV) for this step in F format, separated by commas or spaces. The decimal point must be included, or the program may misinterpret your input. EMIN and EMAX need not be repeated here if they are given in the INPut file, card set 2, Table VI A.1. If they are in both places, values given here are used.
4. What is new EMIN? EMAX? Data file name?	Energy range (in eV) for the next step, in F format, separated by commas or spaces. If EMIN = 0.0 and EMAX = 0.0 (i.e., if you simply hit “return” or include a blank line in the command file), then the program will terminate. If the data file name is blank, the previous DATa file is assumed.
5. Repeat Step 4 as needed, ending with a blank line.	
<ul style="list-style-type: none"> <li>File names are chosen for convenience, with extensions INP, PAR, and DAT used to indicate the type of file. SAMMY users may make different choices for extensions, or use none at all.</li> </ul>	