

Some hints for Assignment 6

Dear students,

- To get addresses of variables from a relocatable object file (in elf format), you need to use either:

`objdump -D lab6.o` OR

`readelf -all lab6.o` OR

`readelf -s lab6.o`

where lab6.o is your object file. Note that a variable's address within the object file is in relation to the data section, but that's okay for this assignment. Also objdump may not report variables mapped to the .bss section (i.e uninitialized variables → you may need to make your variable initialized or use readelf).

To obtain the object files, you need to compile without linking, i.e. use the -c option with gcc.

- To get addresses from the absolute module (executable, also in elf format), you may also use objdump or readelf, but you may also tell the linker to output a map file using -Xlinker Map=lab6.map in your gcc command line.

You can find more details about all these commands or command options in the man pages in you Linux system.

You may direct your output to a file instead of the terminal using the ">" operator, but you may also pipe it to grep where you can much easier search for the symbol (variable) you are looking for.