

# LABCALC 4.0

## - META KERNEL -

by Oskar Lagerås

### 1. What is LABCALC 4.0 ?

LABCALC 4.0 is a program that lets you apply a function on an algebraic matrix.  
Useful when doing calculations on large amounts of gathered data.  
Lets assume that you want to apply A+B on the matrix below, and put the result in the 'C' column, then it would be like this:

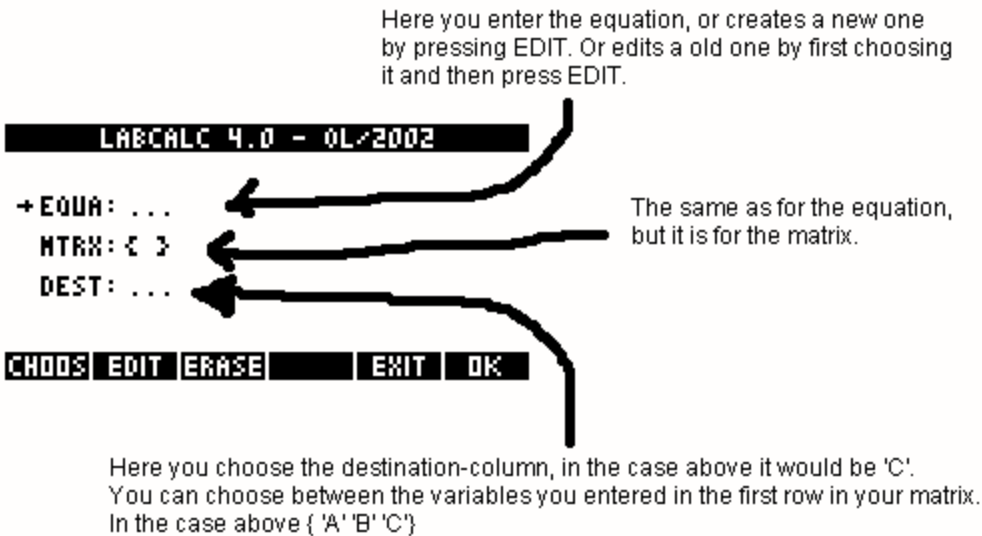


### 2. How should the matrix/equation look like?

The first row in the matrix should contain variable-names. As you see in the example above, the first row contains A, B and C (any variable name is OK, for example 'height', 'mass' etc...). The rest of the matrix should contain ordinary data.

The equation should be an usual equation, using one or more of the variable-names in the matrix, in the example above 'A+B'

### 3. Quick introduction to the interface

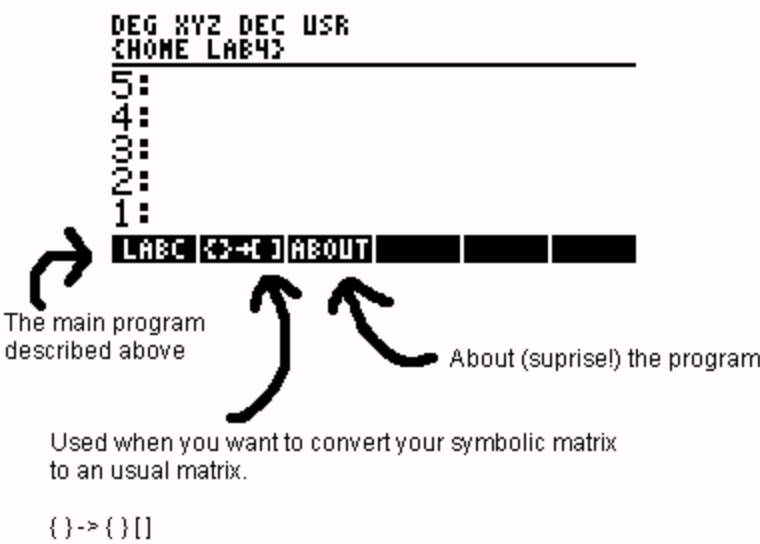


This is the explanation to the softkeys (F1, F2 ... F6):

- CHOOS, lets you choose an equation/matrix in the current directory.
- EDIT, lets you edit an already existing equation/matrix in the matrix/equation writer, or create a new one.
- ERASE, erase the current field.
- EXIT, exit the program.
- OK, turns off the screen and calculates the result, then turns on the screen again.

Now I think you know how to use the program. It might sound cumbersome to use the program, but try the example above and you'll see how easy it is.

### 4. Other programs that comes with the library



The '{ }->[ ]' command is usefull when you want to plot your matrix, because then you can't use a matrix that looks like a list, { }, it has to be in [ ]-form.  
Try it out and you'll understand how it works.

### 5. The META KERNEL

LABCALC 4.0 is designed to work with the MK. If you try to use LABCALC without the MK, I can't tell what will happen (but I don't think it will cause any memory loss ).

### 6. Installing

- To install:
- Download to calculator, put library on stack
  - Type port to install in, often 0, and STO
  - Reboot calculator
  - The installation is now finished.

### 7. Goodbye

Hope that you have enjoyed this manual, and that you liked the graphics.  
I also hope that you will like the program and use it often.  
If you have any questions mail [oskar@despammed.com](mailto:oskar@despammed.com)