

ST Robotics - help sheet 1c

Loading/Reloading controller software

Instructions for Mk5 controllers and ROBOFORTH II v10

How to load an updated version of ROBOFORTH II.

First save existing robot parameters as follows:

1. Double click on ROBWIN icon. Make sure that in settings, configuration, bank memory is checked.

2. Click file, save binary. Change the values in the box to show:

bank 0

Start: 9C00

Length: 100

Save the file with any name you like but normally it is RxxCyyy.SIG.RAM where xx is the robot type and yyy is the serial number.

Load the new ROBOFORTH

3. Select COLD START using front panel switch and press reset.

The message COLD START should appear on the screen.

If you press enter key you should see OK.

4 Click on File then Load Binary. Change the values in the box to show:

bank 0

Start: 4000

Length: 5E00

5. Enter file name that you were given for the new version e.g. R17V104.RAM

6. Enter ROBOFORTH

Reload the robot parameters

7. Click file, load binary. Change the values in the box to show:

bank 0

Start: 9C00

Length: 100

Pick file name you used in 2

8. Briefly check correct installation by typing START and CALIBRATE and HOME

9. Enter PSAVE to save to flash ROM.

How to make a backup of your RAM to disk:

1. Double click on ROBWIN icon Make sure that in settings, configuration, bank memory is checked.
2. Select COLD START using front panel switch and press reset.
The message COLD START should appear on the screen.
If you press enter key you should see OK.
3. Enter ROBOFORTH
- 4 Click on File then Save Binary. Change the values in the box to show:
bank 0
Start: 4000
Length: 5E00
4. Enter a file name e.g. R17V10.RAM or yourname.RAM
5. wait for blue progress bar. You have saved ROBOFORTH complete with the current calibration parameters for your robot.
Warning: do not make a backup until you have pressed the reset button which reloads RAM from flash ROM otherwise you will save any corruptions which may have occurred.

How to reload your RAM from backup file: (only do this if you are SURE the contents of RAM are corrupted as this is unlikely).

1. Double click on ROBWIN icon Make sure that in settings, configuration, bank memory is checked.
2. Select COLD START using front panel switch and press reset.
The message COLD START should appear on the screen.
If you press enter key you should see OK.
- 3 Click on File then Load Binary. Change the values in the box to show:
bank 0
Start: 4000
Length: 5E00
4. Enter file name that you were given with the robot or the name you used when you backed up as above
5. Enter ROBOFORTH
6. Briefly check correct installation by typing START. Don't load your entire project in case it corrupts memory for the next step.
7. Enter PSAVE to save RAM to flash ROM.