

Using USBasp to Load test code

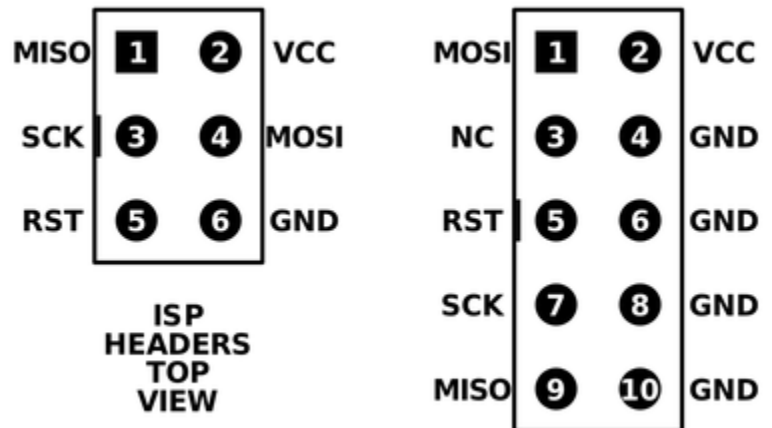
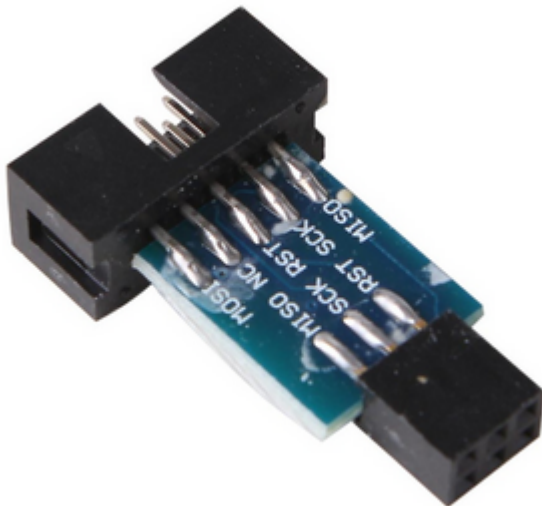
The complied test code in hex file and eeprom file are available at

<https://kswichit.net/micromouse/MMT01.rar>

We can use a cheap USBasp adapter to program the flash and eeprom memory of the nano board easily. The USBasp uses the SPI port of the mega328 chip for flash memory programming.



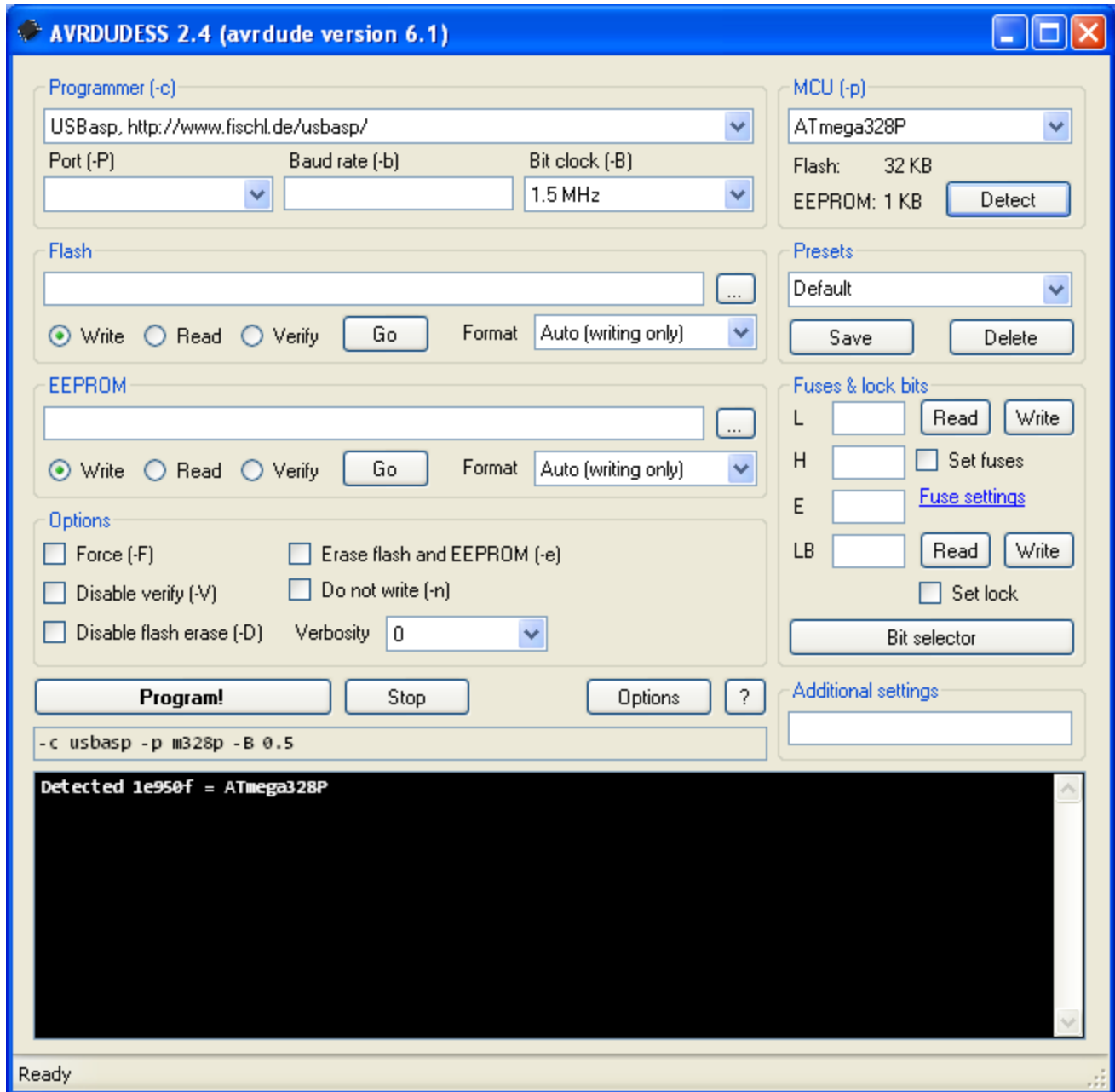
The 10 pins to 6 pins adapter is needed to connect the USBasp adapter to the nano board.



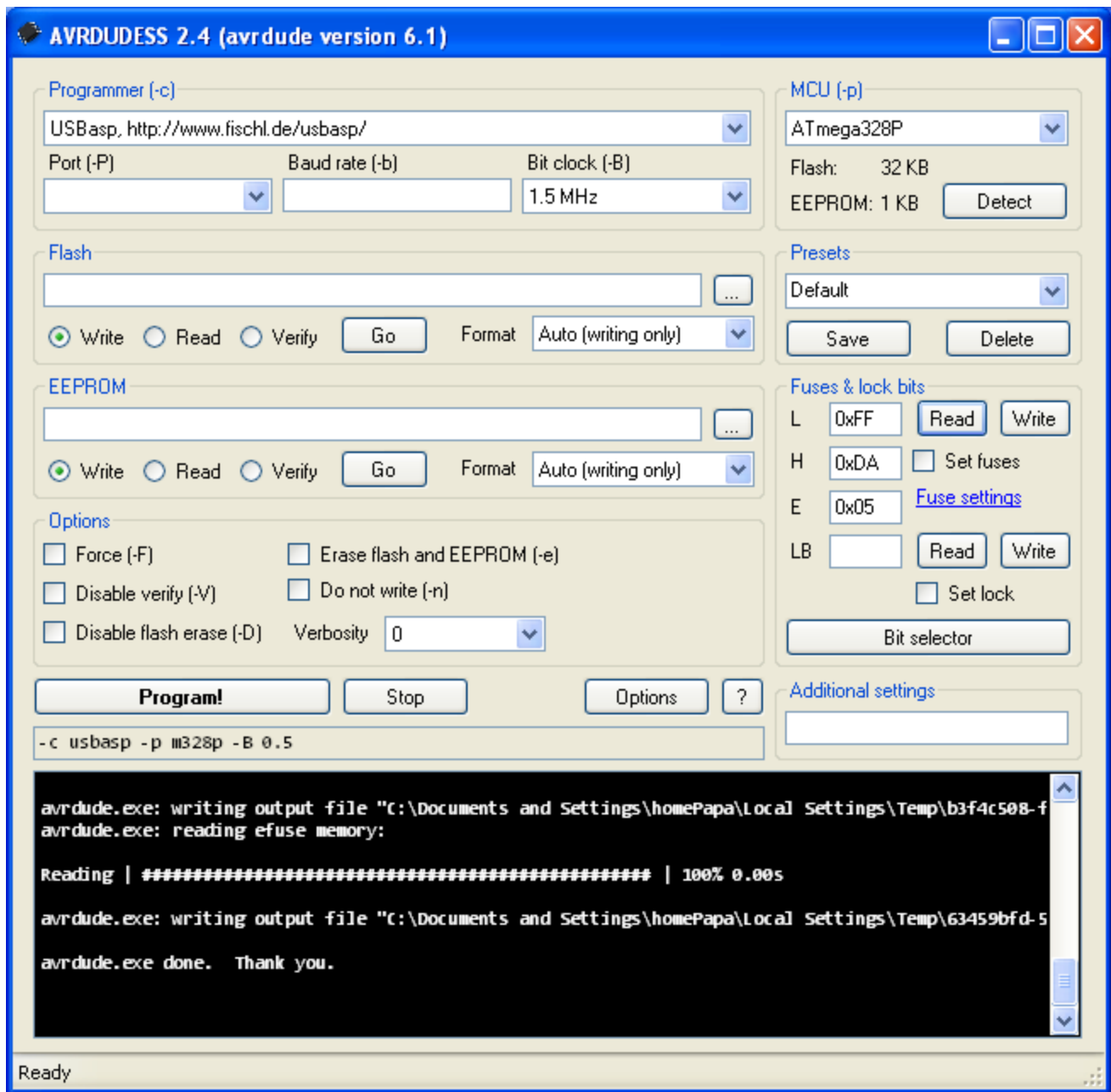
The loader software example here is AVRdude version 6.1.

<https://kswichit.net/micromouse/setup-AVRDUDESS-2.4.rar>

Choose the USBasp as the programmer. When connect it to the nano board, click Detect MCU, the chip ATmega328P will be displayed.

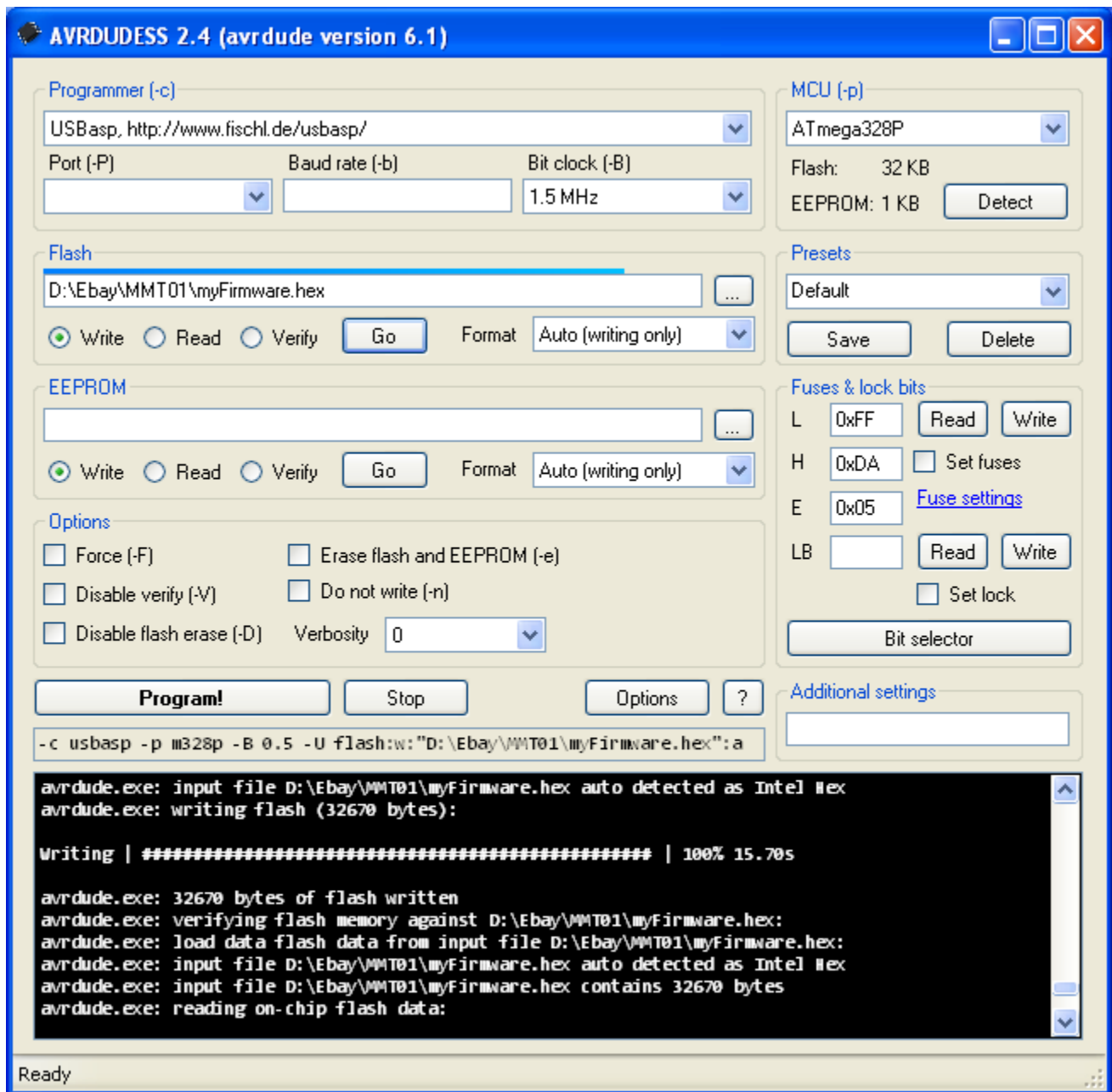


Click Read Fuses & lock bits, the results will be 0xFF, 0xDA and 0x05.



Now open the Flash file for writing. As shown below, the Flash file name is myFirmware.hex.

Then click Go. The bottom window will show Flash memory writing operation.



Then open the EEPROM file for writing. As shown below, the EEPROM file name is myFirmware.eep.

Then click Go. The bottom window will show EEPROM memory writing operation.

When complete, remove the loader from the nanoboard. Then plug it to the bot for testing.

