Remote debugging with Lejos v0.8.5

You can use your PC as a remote console to display tracing statements generated by your NXJ program. Of course your NXT has to be connected to your computer (USB or Bluetooth) while remote debugging.

The lejos.nxt.comm.RConsole class provides several methods for the remote debugging. Since there are no instances of this class, all methods are static.

To start debugging you use one of these methods:

• void open()

Opens a USB connection (without any timeout).

• void openUSB(int timeout)

Opens a USB connection with the timeout timeout.

• void openBluetooth(int timeout)

Opens a Bluetooth connection with the timeout timeout.

You can also create NXT output messages on your PC console, using the following methods:

- void println(String str)
- void print(String str)

However, you have to make sure that the argument str is a real String as the toString() method is not implicitly called. If no successful open statement has been executed, the debug output is discarded.

When debugging is completed, you should call:

• void close()

Closes USB or Bluetooth connection.

After uploading your debug program onto the NXT, execute it. The NXT displays either USB Console... or BT Console... (corresponding to you RConsole-open-method) in the first display line and **waits for the PC based monitor to connect**. Then execute the nxjconsole program in a command line on your computer. When the connection is established, both the NXT and the PC display console open.

As an example we have the following source code:

```
import lejos.nxt.comm.RConsole;
public class TestRConsole {
    public static void main(String[] args) {
        RConsole.open();
        int x = 17;
        int y = 3;
        int sum = x + y;
        RConsole.println("Sum: " + sum);
        RConsole.close();
    }
}
```

After executing this file on the NXT, its display says USB Console... Now we open the remote nxjconsole and get the following output:

```
C:\nxjconsole
Found nxt name NXT address 001653048C82
Connected...
Console open
Sum: 20
Console closed
```