

```

1 /*
2  * Copyright (C) 2016 redxef.
3  *
4  * This library is free software; you can redistribute it and/or
5  * modify it under the terms of the GNU Lesser General Public
6  * License as published by the Free Software Foundation; either
7  * version 2.1 of the License, or (at your option) any later version.
8  *
9  * This library is distributed in the hope that it will be useful,
10 * but WITHOUT ANY WARRANTY; without even the implied warranty of
11 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
12 * Lesser General Public License for more details.
13 *
14 * You should have received a copy of the GNU Lesser General Public
15 * License along with this library; if not, write to the Free Software
16 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
17 * MA 02110-1301 USA
18 */
19 package powerspy.baselib;
20
21 import java.io.*;
22
23 /**
24  *
25  * @author redxef
26  */
27 public class PSInputStream extends InputStream implements IODefs {
28
29     private final InputStream is;
30     private DataPacket dp;
31     private boolean reading;
32     private boolean start_flag;
33
34     /**
35      * Creates a new InputStream which is set up for data transfer with the
36      * PIC. This InputStream will create a DataPacket and interact with it
37      * to read the values.
38      *
39      * @param is
40      */
41     public PSInputStream(InputStream is)
42     {
43         this.is = is;
44     }
45
46     @Override
47     public int available() throws IOException
48     {
49         return is.available();
50     }
51
52     @Override
53     public int read() throws IOException
54     {
55         return is.read();
56     }

```

```

57
58     @Override
59     public synchronized void reset() throws IOException
60     {
61         is.reset();
62     }
63
64     @Override
65     public synchronized void mark(int readlimit)
66     {
67         is.mark(readlimit);
68     }
69
70     private byte read_() throws IOException
71     {
72         return (byte) (read() & 0xff);
73     }
74
75     /**
76      * Clears this InputStream. This method should be called after a
77      * DataPacket has been read and further data is expected to arrive.
78      *
79      * @return this PSInputStream for chaincalling
80      */
81     public PSInputStream clear()
82     {
83         dp = new DataPacket();
84         reading = false;
85         return this;
86     }
87
88     /**
89      * Reads a DataPacket and returns true if the Packet is finished and
90      * ready for interacting with.
91      *
92      * @return a boolean indication the sate of the DataPacket
93      *
94      * @throws IOException
95      */
96     public boolean readPackage() throws IOException
97     {
98         byte r;
99         while (available() > 0 || !dp.isFinished()) {
100             if (reading) {
101                 if (start_flag) {
102                     dp.setType((char) read_());
103                     start_flag = false;
104                 }
105                 r = read_();
106                 if (dp.isString() && r == END_OF_TEXT) {
107                     dp.setFinishedString();
108                 } else {
109                     dp.addByte(r);
110                 }
111                 if (dp.isFinished()) {
112                     reading = false;
113                     return dp.isFinished();

```

```
114         }
115     } else {
116         if (read_() == START_OF_TEXT) {
117             reading = true;
118             start_flag = true;
119         }
120     }
121 }
122 return dp.isFinished();
123 }
124
125 /**
126  * Returns the underlying DataPacket.
127  *
128  * @return the DataPacket
129  */
130 public DataPacket getDataPacket()
131 {
132     return dp;
133 }
134
135 }
```