

# Update on reading Evio files in lcsim

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# Status

- Created a test routine in hps-java/src/test/java/org/lcsim which reads evio files using the jevio EvioFile class

The screenshot displays the NetBeans IDE 7.0 interface. The main editor window shows the source code for `DoEvioTest.java`. The code includes imports for `org.jlab.coda.jevio` and `java.io` packages, and defines a `testDoTestEvio()` method that extends `TestCase`. The test method is currently empty, with a comment indicating it is a test for reading EVIO files.

```
6 import org.jlab.coda.jevio.IEvioListener;
7 import org.jlab.coda.jevio.EvioEvent;
8 import org.jlab.coda.jevio.BlockHeader;
9 import org.jlab.coda.jevio.EventParser;
10
11
12 import java.io.*;
13 import java.nio.*;
14 import org.jlab.coda.jevio.ByteParser;
15 import org.jlab.coda.jevio.IEvioStructure;
16 import org.jlab.coda.jevio.BaseStructureHeader;
17 import org.jlab.coda.jevio.EvioException;
18
19 /**
20  * This is a test of using jevio routines to read EVIO files.
21  *
22  * @author homer
23  * @version $Id: DoEvioTest.java,v 1.1 2011/11/16 23:25:16 homer Exp $
24  */
25 public class DoEvioTest extends TestCase {
26
27     public void testDoTestEvio() {
28         // Custom exception for "Test for EVIO - To write de exception!"
29     }
30 }
```

The Test Results window at the bottom shows the test execution details. The test `org.lcsim.DoEvioTest` passed successfully, with a progress bar at 100.00% and a duration of 0.348 seconds. The output window displays the following log:

```
reading event
events remaining =2
nextEvent: BLOCK HEADER :
block size: 8192
number: 12
headerLen: 8
.....
```

The Navigator window shows the test case `DoEvioTest :: TestCase` with the method `testDoTestEvio()` selected. The Project Explorer on the left shows the project structure, including the `org.lcsim` package and the `DoEvioTest.java` file.

# In progress

- Start putting values in Icio structures
- Working on map reader
  - Already starting from an XML example but may just settle on the current intended text file format
- Tests

# Next major step

- Get real hps-like evio data
- Fill Icio banks
  - - perhaps I can borrow from GEMC Icio work
- Reconstruct

Icio->evio->Icio test

# Projections

- Startup steps have been mostly overcome and other tasks are less pressing