

# Release Notes - HPS Java - Version 3.3.1

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### Release Date

June 3 2015

### Jenkins Build

<http://srs.slac.stanford.edu/hudson/view/HPS/job/hps-modules/1635/>

### Nexus Download

<http://srs.slac.stanford.edu/nexus/service/local/artifact/maven/redirect?r=lcsim-maven2-releases&g=org.hps&a=hps-distribution&v=3.3.1&e=jar&c=bin>

### LCSim Version

3.1.1

### Comments

Engineering Run pass1 reconstruction

### Bug

- [HPSJAVA-491] - Plugin does not install properly in release
- [HPSJAVA-499] - Support application of SVT alignment constants from conditions database to detector model
- [HPSJAVA-502] - LCIO output cannot be read with C++ API
- [HPSJAVA-504] - Plotting backend in monitoring app creates too many threads
- [HPSJAVA-506] - Monitoring App's "Save As PDF" Needs to Update Plot Axis Scales First
- [HPSJAVA-512] - Update Apache Math dep to 3.5

### Improvement

- [HPSJAVA-61] - Improve SVT hit time reconstruction
- [HPSJAVA-441] - EVIO Mode 1 proper processing
- [HPSJAVA-494] - Implement Sequential Read of EVIO Files
- [HPSJAVA-510] - Verify Correct Mode-7 Timing from Mode-1 Data for Next Pass
- [HPSJAVA-511] - Event-by-Event Pedestal from Mode-1 Data for Running Pedestal for Next Pass

### New Feature

- [HPSJAVA-492] - Add collections info table
- [HPSJAVA-495] - Add a second shaping time parameter to SvtShapeFitParameters
- [HPSJAVA-513] - SVT timing constants in conditions DB
- [HPSJAVA-520] - Add Driver for copying cluster collections
- [HPSJAVA-521] - ECal Pulse Fitting
- [HPSJAVA-524] - Add Java variable for disabling SVT alignment conditions

### Task

- [HPSJAVA-303] - Add derivatives to Java implementation of GBL
- [HPSJAVA-507] - Use EVIO 4.4.6 release

### Sub-task

- [HPSJAVA-62] - Port arbitrary pulse shape fitting to hps-java
- [HPSJAVA-64] - Use hit times in track fit
- [HPSJAVA-483] - Implement select, delete and update operations for conditions collections
- [HPSJAVA-508] - Merge HPSJAVA-499 branch into trunk