

# Package ILCDIRAC

## Version v1r18p8

### BUGFIX

#### Workflow

- Default number of events to process in SLICPandora must be -1.

## Version v1r18p7

### BUGFIX

#### Workflow

- use of lower in name matching killed matching (Again).

## Version v1r18p6

### BUGFIX

#### Workflow

- use of lower in name matching killed matching.

## Version v1r18p5

### CHANGE

#### Workflow

- Naming convention in UploadOutputData, for easier maintenance

## Version v1r18p4

### BUGFIX

#### Workflow

- Fixed Pythia Module outputFile name in Prod context

## Version v1r18p3

### BUGFIX

#### Workflow

- Fixed Pythia Module outputFile name in Prod context

## Version v1r18p2

### BUGFIX

#### Interfaces

- Fixed Production.py

#### Workflow

- Fixed Pythia Module outputFile name

## Version v1r18p1

### BUGFIX

#### Interfaces

- Fixed Production.py

#### Workflow

- Fixed Pythia Module outputFile name

## Version v1r18p0

### NEW

#### Interfaces

- Added Pythia Step

## Version v1r17p10

### CHANGE

#### Workflow

- Added printout of files obtained in overlay

## Version v1r17p9

### BUGFIX

#### Workflow

- don't account for the dirac\_directory things when nsls

## Version v1r17p8

### BUGFIX

#### **Workflow**

- don't account for the dirac\_directory things when nsIs

## **Version v1r17p7**

### **NEW**

#### **Workflow**

- OverlayInput: when running at CERN, get the file list from CASTOR

## **Version v1r17p6**

### **BUGFIX**

#### **Workflow**

- OverlayInput failed to find metadata because specified prodID was not correct

## **Version v1r17p5**

### **CHANGE**

#### **Workflow**

- if overlayInput runs at CERN, it will get the files with xrdcp

## **Version v1r17p4**

### **CHANGE**

#### **Workflow**

- OverlayInput will wait no longer than 300 minutes, else declare as failed.

### **BUGFIX**

#### **Workflow**

- whizard was throwing an uncaught exception when the lumi was not found

## **Version v1r17p3**

### **BUGFIX**

#### **Workflow**

- Overlayinput was downloading all files twice!

## Version v1r17p2

### NEW

#### Interfaces

- LCSIM now has a new parameter, extraparams, that can be used to pass command line parameters
- GetSRMFile now limits the number of parallel downloads to 100 by default (CS parameter) to avoid time outs from disk server
- More messages during overlay input module

## Version v1r17p1

### CHANGE

#### Interfaces

- Default Log file name now includes step number, so one can run 2 times or more the same application, and the log file does not get erased
- Missing process list message is now a warning.

### BUGFIX

#### Core

- OutputREC files and OutputDST were not set properly in LCSIM

## Version v1r17p0

### NEW

#### Workflow

- Overlay now allows only 200 parallel file downloads, CS parameter

### CHANGE

#### Core

- add-software script puts the file at IN2P3 and the replication request is to CERN

#### Interfaces

- Parameters are now properly placed in the CS

#### Workflow

- Added proper SVN keywords

## **Version v1r16p17**

### **BUGFIX**

#### **Workflow**

- Again the tag name is wrong...

## **Version v1r16p16**

### **BUGFIX**

#### **Workflow**

- Fix logic bug in OverlayInput as it used to download as many files as there are signal events.

## **Version v1r16p15**

### **BUGFIX**

#### **Workflow**

- level of message warning does not exists, but warn does

## **Version v1r16p14**

### **BUGFIX**

#### **Core**

- USER\_spectrum\_mode was not set properly in whizard

## **Version v1r16p13**

### **NEW**

#### **Interfaces**

- : Support for user spectrum in whizard.

### **CHANGE**

#### **Core**

- Also look at the Number of bunch train to overlay before looking at the files.

## **Version v1r16p12**

### **CHANGE**

#### **Workflow**

- Disable CPU check while getting the overlay files as there is a risk it takes too much time

## **Version v1r16p11**

### **CHANGE**

#### **Workflo**

- Disable CPU check while getting the overlay files as there is a risk it takes too much time

## **Version v1r16p10**

### **BUGFIX**

#### **Workflow**

- tag number was wrong

## **Version v1r16p9**

### **NEW**

#### **Core**

- dirac-ilc-add-software and add-whizard now create a replication request for new tar balls.

#### **Interfaces**

- Module to print out the Workflow parameters only

#### **Workflow**

- For next major dirac release, ParametricInputSandbox will be possible with Marlin

### **CHANGE**

#### **Workflow**

- Now when getting the overlay fioles, wait for 3 minutes on average (gauss distributed, sigma=0.1)
- Use common method between application modules (not for Mokka though) to report the final status

## **Version v1r16p8**

### **NEW**

#### **Interfaces**

- Script to obtain the productions summaries

### **CHANGE**

## **Interfaces**

- Production API now get the directory metadata to pass to daughters

## **Workflow**

- Catch message in whizard log to declare the job as successful

# **Version v1r16p7**

## **CHANGE**

### **Core**

- Get the directory metadata of the InputData files to get the number of events.

# **Version v1r16p6**

## **CHANGE**

### **Core**

- Look for overlay files only if needed

# **Version v1r16p5**

## **NEW**

### **Core**

- Allow setting of event by event parameter ProcessID. Can be set by users' jobs and automatically resolved for production jobs

# **Version v1r16p4**

## **NEW**

### **Core**

- Handle the particle.tbl file for Mokka

# **Version v1r16p3**

## **NEW**

### **Workflow**

- Catch the luminosity generated by whizard for a job, and pass it to the workflow\_commons definition

## Version v1r16p2

### BUGFIX

#### Core

- dirac-ilc-add-software

## Version v1r16p1

### NEW

#### Core

- PrepareTomatoSalad: prepare the xml file for running tomato

### CHANGE

#### Workflow

- MarlinAnalysis can be subclassed easily: TomatoAnalysis is a subclass

## Version v1r15p7

### NEW

#### Core

- CheckXMLValidity utility to check at submission time the validity of the xml steering files

### CHANGE

#### Interfaces

- Use new CheckXMLValidity utility for Marlin and LCSIM

## Version v1r15p6

### NEW

#### Interfaces

- Switch to ignore application errors, use setIgnoreApplicationErrors() method of ILCJob to enable
- validate input xml files during submission, catches most typos.

### CHANGE

#### Workflow

- allow for user defined LesHouches file if whizard.



## Version v1r15p5

### CHANGE

#### Core

- Processlist is now passed as inputsandbox, so if downloading fails the first time, the job gets rescheduled

### BUGFIX

#### Interfaces

- Production API: do not look for detector model if the data type is gen

#### Workflow

- SLICAnalysis: outputslcio -> outputFile

## Version v1r15p4

### NEW

#### Workflow

- Registration of production files ancestors

## Version v1r15p3

### NEW

#### Interfaces

- Add MCGeneration as a possible Production type

### CHANGE

#### Workflow

- Added memory requirement for java in LCSIM

### BUGFIX

#### Core

- With new Script interface, our scripts would not work. Made ilc-proxy-init deprecated, use proxy-init instead
- Overlay input for LCSIM did not work (created exception)

## Version v1r15p2

### BUGFIX

#### **Workflow**

- bad workflow tag

## **Version v1r15p1**

### **BUGFIX**

#### **Workflow**

- bad workflow tag

## **Version v1r15p0**

CHANGE: move to DIRAC v5r12p7

### **NEW**

#### **Core**

- Utility to obtain a prod proxy if needed, useful in prod submission scripts

#### **Interfaces**

- support for Tomato, check collections, lcio concat: currently in test phase

#### **Workflow**

- Support for overlay in LCSIM

### **CHANGE**

#### **Interfaces**

- Modified scripts for sid jobs

#### **Workflow**

- Moved many parameters from many sub classes to mother class (ModuleBase): easier maintenance

## **Version v1r14p0**

### **NEW**

#### **Interfaces**

- SID production submission scripts
- SID chain job submission scripts, and directory containing necessary files

### **CHANGE**

#### **Core**

- software addition uses Request object for replication.

## BUGFIX

### Core

- now remove system libs from all application on site. In the future, should remove them at tar ball creation time

### Workflow

- Pass basename of xml file in LCSIM instead of parameter value

## Version v1r13p3

## BUGFIX

### Core

- Gear file can also be a text in the xml parameters, not only a value

## Version v1r13p2

## NEW

### Core

- Added utilities for overlay input

### Interfaces

- interface for overlay

### Workflow

- Module for Overlay Input

## BUGFIX

### Workflow

- fix import location in LCSIMAnalysis

## Version v1r13p1

## BUGFIX

### Workflow

- fix LD\_LIBRARY\_PATH for whizard

## Version v1r13p0

## NEW

### Core

- Utility to remove the libc provided in the software packages

#### **Interfaces**

- Script to submit productions in slic context

## **CHANGE**

#### **Workflow**

- All workflow modules check that log file is present

## **Version v1r12p1**

## **BUGFIX**

#### **Workflow**

- bug fix in MokkaAnalysis

## **Version v1r12p0**

## **NEW**

#### **Core**

- Now Mokka uses random seed for every job. Users can set their own seed.

## **Version v1r11p2**

## **BUGFIX**

#### **Workflow**

- take new interface of writestdhep into account

## **Version v1r11p1**

## **BUGFIX**

#### **Core**

- Bug in CombimedSoftware installation

#### **Interfaces**

- Several errors remained in PostGenSel module

## **Version v1r11p0**

## **NEW**

## Core

- added script to obtain list of available software: no need to use web page

## Interfaces

- added PostGenSel step to allow "generator level" cuts

# Version v1r10p7

## CHANGE

## Core

- All applications are also replicated to IN2P3-SRM

## Interfaces

- jobindex in whizard can be anything

## Workflow

- in whizard, when PYSTOP was called, application was still OK, now not anymore

## BUGFIX

## Interfaces

- XML file for LCSIM is now a parameter in the Production API

# Version v1r10p6

## BUGFIX

## Core

- TARSoft was failing installation of lcio

# Version v1r10p5

## NEW

## Core

- LCIO specific install: environment vars are set

## CHANGE

## Interfaces

- Allowed models in Whizard for susy are slsqhh and chne

# Version v1r10p4

## NEW

## **Interfaces**

- allow choice of SUSY model in whizard

# **Version v1r10p3**

## **CHANGE**

### **Core**

- added beam\_ercoil and keep\_initials as parameters

# **Version v1r10p2**

## **BUGFIX**

### **Workflow**

- Registration of file in FC failed because FC changed

# **Version v1r10p1**

## **BUGFIX**

### **Core**

- PrepareOptionsFile had a bug in Preparation of whizard.in

# **Version v1r10p0**

## **NEW**

### **Interfaces**

- Whizard step in DIRAC
- SLIC Pandora step is in ProductionAPI

### **Workflow**

- WhizardAnalysis module
- FailoverRequest module: publish requests and update file status in transformation system

## **CHANGE**

### **Core**

- Whizard default .in file is now whizard.template.in, and is templated
- Propagate the number of events and luminosity through productions

### **Interfaces**

- Production and user job API takes parameters for whizard, to fill in the template

- complete LCSIM step in production API: input and output are treated properly
- Production details are available from web interface

#### **Workflow**

- UserLFN now uses current credentials to guess the VO: suitable for ILC and CALICE run

## **Version v1r9p0**

### **NEW**

#### **Core**

- add resolveOFnames to change output files in production context
- script/dirac-ilc-add-whizard: define in DIRAC a new whizard version

#### **Interfaces**

- Add possibility to get a file using its SRM path FIXME: startFrom in mokka is 0 by default instead of 1.
- SLICPandora step definition

#### **Workflow**

- GetSRMFile module: used to get a file given its SRM path. Useful to get a file that is not registered in the DIRAC FC.
- RegisterOutputData: set the metadata flags for production data
- SLICPandora Module

### **CHANGE**

#### **Core**

- check that application software is not empty after untarring

#### **Interfaces**

- allow arguments in ApplicationScript. To be used for pyroot scripts
- add IS\_PROD to workflow parameters, for Production API only

#### **Workflow**

- handle production context properly: input and output file names depend on prod ID and job ID
- check that applications are actually there before running, and if not return an error.

## **Version v1r7p1**

### **CHANGE**

#### **Core**

- add comments in created steering and xml TODO: idem for SLIC and LCIM FIXME: replace rstrip by replace in TARSoft.py

#### **Interfaces**

- Marlin does not need to be specified the inputslcio list, as it is taken from inputdata if mokka step is not run before
- overload setBannedSites

## Version v1r7p0

### CHANGE

#### Core

- Reshuffle CombinedSoftwareInstallation so that we use the SharedArea
- TARSoft: don't redownload the applications if they are already there. Had to do some tricks to manage slic folder name TODO: what about LCSIM
- in TARSoft, use ReplicaManager if url does not start with <http://>
- better check in SQLWrapper that TMP dir is properly created. Also do proper remove of TMP dir, whatever happened to the socket.
- better handling of SQLWrapper errors
- Add modules needed by UserJobFinalization
- adapt ProductionData to ILC needs, basically removing everything
- To be able to use InputData, need to import InputDataResolution.
- dirac-ilc-add-software.py: now add to TarBallURL location the tar ball
- update detectOS after discussion with Hubert, comment out slc4 binary support

#### Interfaces

- In presubmissionchecks, check that outputpath, if used, does not contain ../, ./, or //, and does not end with /.
- All applications now call the UserJobFinalization module, and setOutputData is ILC specific.
- Check that outputdata and outputsandbox do not contain the same things and output data does not allow wildcard FIXME: checks where not done properly, all things were not checked FIXME: add TotalSteps in setROOT
- allow to use LFNs for steering and xml files for Mokka and Marlin

#### Workflow

- handle return value of SQLWrapper in MokkaWrapper
- check if input slcio is present for Marlin before running
- add UserJobFinalization module, taken from LHCb
- prepare for using InputData: find out where the files are on the fly and pass the full path to PrepareOptionsfiles



## Version v1r6p2

## Version v1r6p1

## Version v1r6p0

### NEW

#### Core

- dirac-ilc-add-software, utility to add software in CS

### CHANGE

#### Interfaces

- use elif statements

#### Workflow

- handle end of file reached in Mokka, avoid job declared as failed.
- in Marlin if nb of events to process is not specified, use -1 i.e. all events.

## Version v1r5p0

### CHANGE

#### Core

- Take into account dependencies in installation phase.
- Set convention that folder containing application is same as tar ball name minus .tar.gz and .tgz

#### Workflow

- Get base folder name based on CS content, allows for multiple version of the same software to run FIXME: Running marlin: duplicated processors were not properly removed from MARLIN\_DLL.

## Version v1r4p0

### NEW

#### Interfaces

- add DiracILC with specification of preSubmissionChecks

#### DataManagementSystem

- add DataManagementSystem, for dirac-dms-gridify-castor-file script

### CHANGE

#### **Core**

- add in PrepareOptionsFiles the relevant methods for SLIC and LCSIM FIXME: fixes to the methods for Mokka and Marlin.

#### **Interfaces**

- add the relevant bits of code for the definition of SLIC and LCSIM jobs
- add the possibility to run on mac files in mokka

#### **Workflow**

- add relevant workflow for SLIC and LCSIM

## **Version v1r3p0**

### **CHANGE**

#### **Core**

- add ilc-install.sh script FIXME: Fix PrepareOptions such that the parsing of options is done properly

#### **Interfaces**

- in ILCJob, possibility to run Mokka and Marlin in one job

## **Version v1r2p0**

### **CHANGE**

#### **Core**

- rewrite of SQLwrapper

## **Version v1r1p0**

### **CHANGE**

#### **Core**

- start working on InputDataResolution

#### **ConfigurationSystem**

- adapt UsersAndGroups to LCD : comment references to LFC

#### **Interfaces**

- finish dev of LCDJob

### **BUGFIX**

#### **Workflow**

- Fix several bugs

# Version v1r0p0

NEW: first release

## NEW

### Core

- first import

### ConfigurationSystem

- first import

### Interfaces

- first import

### Workflow

- first import