

# Package ILCDIRAC

## Version v2r1p3

### BUGFIX

#### Core

- mysql4grid directory sent back to LocalArea

## Version v2r1p2

### BUGFIX

#### Core

- Changing directory was done too late, the app was never found

## Version v2r1p1

### BUGFIX

#### Core

- checking that one is allowed to write in the area was done before checking that the application was there.

## Version v2r1p0

### CHANGE

#### Core

- added message in case of success of soft removal

#### Workflow

- Workflow modeules now look into the software dir for default location of steering files if they are not in the cur dir

## Version v2r0p0

### NEW

#### Core

- Allow installation in SharedArea by default. Fall back to LocalArea when not possible to use.
- RemoveApp module to remove applications

#### Interfaces

- Added MCreconstruction\_Overlay as valid production type, Added interface to remove applications: experts ONLY!

## **Version v1r19p0**

### **NEW**

#### **OverlaySystem**

- Service to handle properly the overlay

#### **Workflow**

- OverlayInput uses OverlaySystem

## **Version v1r18p16**

### **BUGFIX**

#### **Workflow**

- OverlayInput at RAL is failing (again)

## **Version v1r18p15**

### **BUGFIX**

#### **Core**

- Number of events per job was not properly treated.

#### **Workflow**

- OverlayInput at RAL is failing

## **Version v1r18p14**

### **BUGFIX**

#### **Workflow**

- In OverlayInput, dccp command for Imperial site had wrong argument

## **Version v1r18p13**

### **CHANGE**

#### **Workflow**

- In OverlayInput, Control the number of concurrent download per site, even for CERN, CC and Imperial

## **Version v1r18p12**

### **CHANGE**

#### **Workflow**

- In OverlayInput, use dcap protocol in imperial

## **Version v1r18p11**

### **CHANGE**

#### **Workflow**

- In OverlayInput, allow direct access in IMPERIAL

## **Version v1r18p10**

### **CHANGE**

#### **Workflow**

- In OverlayInput, don't use FC to get number of events per file, use CS parameter instead. Also count failures, and if too many (CS parameter =20), return error

## **Version v1r18p9**

### **CHANGE**

#### **Workflow**

- In OverlayInput, if running at CERN, use also rfcp if xrdcp fails. Add IN2P3-CC as a site that can use xrdcp

## **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 nsls

## **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 files, 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\_ercoiled 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