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How to launch an "empty" production

Empty productions do not contain an Input Data query. These can be used to reproduce files which were lost from site storage (e.g. Full.dst). An empty production therefore must not contain an input data query. Any files that need to be used by the production shall be inserted from the dirac CLI by hand. The following steps guide through the generation of an empty production.

The procedure below shall only be executed by experts

- Go to the LHCbDirac web portal - request manager and create a necessary request. This can be done by either duplicating an old request which is close to the production that you need to generate (take care eg. about Conditions tags, steps, etc.), or create a new request from scratch. When duplicating an old request the portal will ask whether the processing pass shall be removed, answer with "No"
- If needed modify the request, at least change the name on the top and put a comment.
- Sign and activate the request -> lhcb_tech -> lhcb_ppg -> lhcb_prmgr
- As lhcb_prmgr "edit" the request and "Generate" a new production (bottom)
- Fill in the upcoming form as if you would like to generate a regular production, make the necessary changes to the form (e.g. HepSpec06.s, destination SE, etc.)

Parameter	Value
---->WORKFLOW: choose one below	
-WORKFLOW1: Reconstruction	True
-WORKFLOW2: Stripping+Merge	False
-WORKFLOW3: RecoStripping+Merge	False
-WORKFLOW4: Reconstruction+Stripping+Merge	False
GENERAL: Set True for certification test	False
GENERAL: Set True for local test	False
GENERAL: Set True for validation prod	False
GENERAL: Workflow destination site e.g. LCG.CERN.ch	ALL
GENERAL: Workflow string to append to production name	1
GENERAL: discrete list of run numbers (do not mix with start/endrun)	
GENERAL: extra options as python dict stepNumber:options	
GENERAL: fraction to process, per run	0
GENERAL: minimum number of files to process, per run	0
GENERAL: previous prod ID (for BK query)	0
GENERAL: run end, to set the end of the range	0
GENERAL: run start, to set the start run	0
PROD-1: multicore flag	False
PROD-1:RECO(Stripp): DataReconstruction or DataReprocessing	DataReconstruction
PROD-1:RECO(Stripp): Group size or number of files per job	1
PROD-1:RECO(Stripp): Max CPU time in secs	1400000
PROD-1:RECO(Stripp): Output Data Storage Element	Tier1-RDST
PROD-1:RECO(Stripp): policy for input data access (download or pr...	download
PROD-1:RECO(Stripp): priority	8
PROD-1:RECO(Stripp): production plugin name	AtomicRun
PROD-1:RECO(Stripp): system config e.g. x86_64-slc5-gcc46-opt	ANY
PROD-2: multicore flag	True
PROD-2:Stripping: Group size or number of files per job	2
PROD-2:Stripping: Max CPU time in secs	1000000
PROD-2:Stripping: output data SE (un-merged streams)	Tier1-BUFFER
PROD-2:Stripping: plugin name	ByRunWithFlush
PROD-2:Stripping: policy for input data access (download or protocol)	download
PROD-2:Stripping: priority	5
PROD-2:Stripping: system config e.g. x86_64-slc5-gcc46-opt	ANY
PROD-3: multicore flag	True
PROD-3: Merging: Max CPU time in secs	300000
PROD-3: Merging: Size (in GB) of the merged files	5

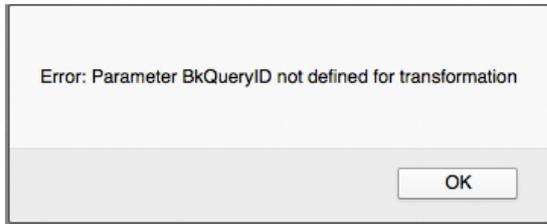
- DO NOT PUSH THE "Generate" BUTTON OF THE FORM" , Instead push the "ScriptPreview" button and copy the python script shown
- Logon to your favorite interactive machine / service (e.g. lxplus) and "SetupProject LHCbDirac" and copy the script from the previous point to an empty python file YOURPRODFILE.py
- Change the line "pr.bkQueries = {}" in the active steps (w1, w2, etc. depending how many you have) to "pr.bkQueries = {}" (the two single quotes in the dictionary are important), e.g.

```
--- specialProdRecreateCollision12Reco14FullDstMagDown.org.py 2013-09-02 17:17:39.000000000 +0200
+++ specialProdRecreateCollision12Reco14FullDstMagDown.py 2013-09-02 17:18:17.000000000 +0200
```

EmptyProduction < LHCb < TWiki

```
@@ -193,7 +193,7 @@
  pr.plugins = [recoPlugin]
  pr.inputs = [recoInputDataList]
  pr.inputDataPolicies = [recoIDPolicy]
- pr.bkQueries = ['Full']
+ pr.bkQueries = []
  pr.sysConfig = [recoSysConfig]
  pr.targets = [targetSite]
  pr.multicore = [recoMulticoreFlag]
```

- Save the file and launch it with "python YOURPROFILE.py"
- Go back to the LHCbDirac web portal, look at the TransformationMonitor and check that the new production with your request appears
- For this production check that the option "Input Data Query" returns a popup window with the error "Error: Parameter BkQueryID not defined for transformation"



This topic: LHCb > EmptyProduction

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