# How DPD job submission is done and the issues involved

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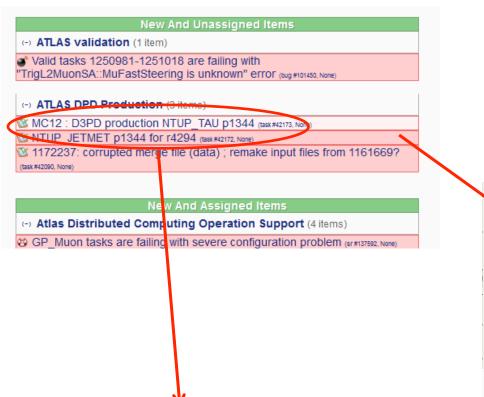
The broad outline of the current procedure

- 1)The list of current requests is scanned to determine what type of request they are complete or often need the datasets placing into the request by the submitter, sometimes the tags are not known, or new tags need to be created by the submitter and then according to the following types
- single stage (largely MC type production)
- •Multiple stage (data production), can be 2 or 4 stage.
- •A correction to or additional datasets added to the task.
- •A request for action on tasks already in prodsys.

A relevant list is recorded of a single category and the each request of a given type is processed Through the tool by typing in the task id then

- 1)Data is taken directly from the savannah request web page via php read.
- 2)The web page strings are searched for the required information. These include tag, author, and datasets but they can be declared in multiple places. Mistakes can be made in these definitions by the submitter or they many not know the information and it needs to be added. Currently three different sources of dataset are allowed embedded in comments, afs files, attached files. Often they are multiply defined and this has to automatically allowed for sono duplication occurs.

#### How it is done by stage: 1 (preparation)

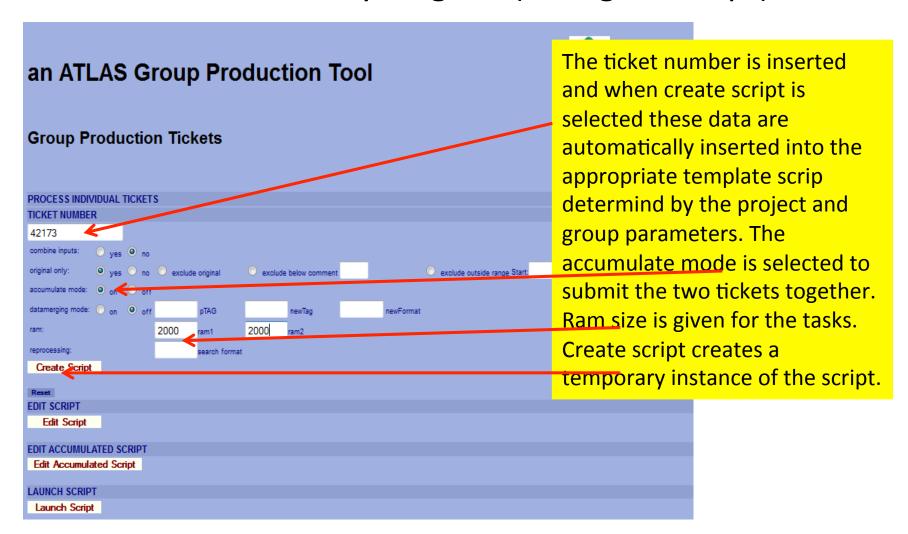


Incoming requests inspected for type mistakes and extra needed input.



These two are complete single stage and suitable to launch together

#### How it is done by stage: 2 (configure script)



#### How it is done by stage: 3 (make script)

#### an ATLAS Group Production Tool



Group Production Tickets	The individual current script or
	the final accumulated script can
PROCESS INDIVIDUAL TICKETS	be inspected and edited in a text
TICKET NUMBER	
42173	area box if necessary (unusual)
combine inputs: O yes O no	and then launched
original only:	comment
accumulate mode:  on off	
ram:  2000 am1 2000 ram dad dad dad dad dad dad dad dad dad d	### ### ### ### ### ### ### ### ### ##
co	MMIT EDITS

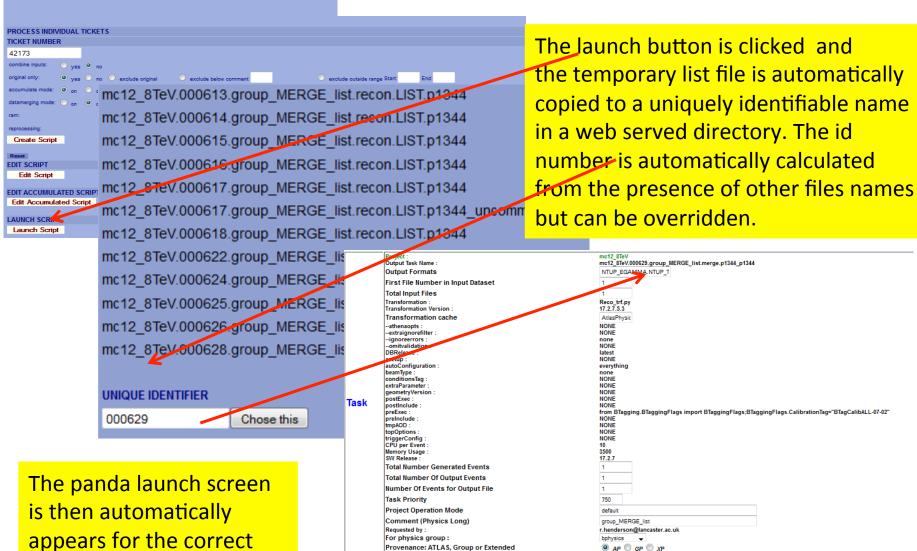
#### an ATLAS Group Production Tool

file and the launch is

completed.

#### **Group Production Tickets**

#### How it is done by stage: 4 (launch)



same

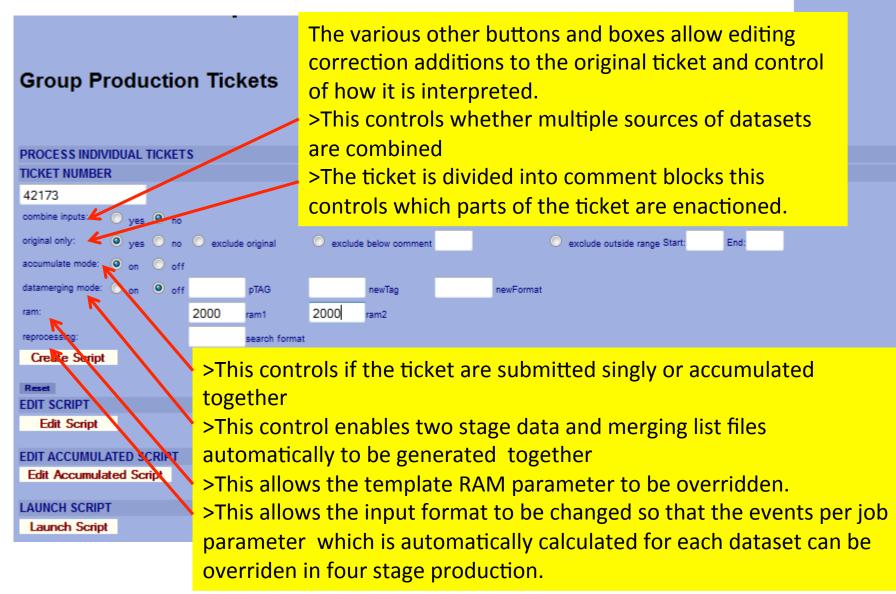
#### How it is done by stage: 5 (recording /informing)

The last tag is then automatically incorporated in a button that will return from panda the task number of the latest task with that tag. This information is added to the ticket by hand and the ticket closed. The whole transaction is recorded in paper format so that when problems occur later the list file and ticket can be relocated. The information here is ticket tag, list file id, task number. It was intended to insert this information directly into mysql.

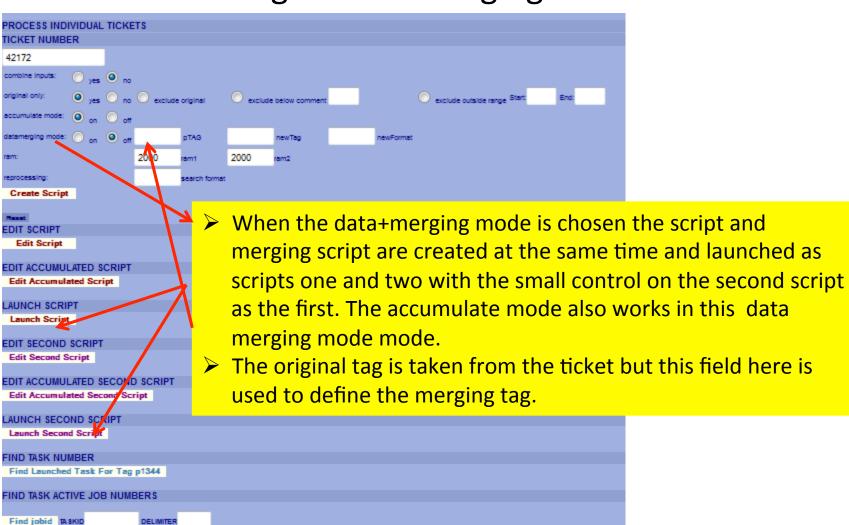
Submitted by: Submitted on:	TUP_JETMET p1344 for r  Toshi Synida <toshi> 2013-07-13 16:38</toshi>	4634		
IND TASK NUMBER		Should be Kini. Priority:		
Find Launched Task	For Tag p1344	Privacy: Open/Closed: Cache: *		
IND TASK ACTIVE JOB	NUMBERS	Output types: Number of eve		
Find jobid TASKID	DELIMITER	Number of other use this product		
→ Post a Cornment				
Add a New Comment (				
Toshi submitted 1253383 Rob				

			60	1250625
	417988	P1032 P1035)	56	1250982
1	-117040	PISZS	598	250975
1	42058	P1528	018	250113
-	42025	P1344   P1346	627/59	2 1250976
+	3887636		628	1251071
	38042	P1802   P1298	501 501	1251072
-	42076	p1828	549	1251173
-	4283	P1082		
1	42084	01400	-	10-187
Ī	42085	P1328	600	1251197
	42082	P1328	TU 314	Mana
	42081	P187.8		
-	4286	P14977		1251436
	42087	P1035 3	500	1436
7	42095	P1328)		
-	42156)	P1400)		
	42158	P1828		
	42159	P1328		
	42161	P 1344	500	1252799
	421627	P1364	13203	
1	42163	P1486		
	42165	P1035	Later	K.s
-	42 168	P1344 ]	1 24	3-19
	4213	P13443 62	5	1253383
	A2172	P1844 ) 04	100,33	1-22002

#### More complex cases: 5 (editing the tickets)



#### Two stage data + merging : 6



COMMENT DOM ERROR FROM LIST FILE

## Four stage stage data + merging : 7 (AOD-DAOD-NTUP-NTUP MERGING)

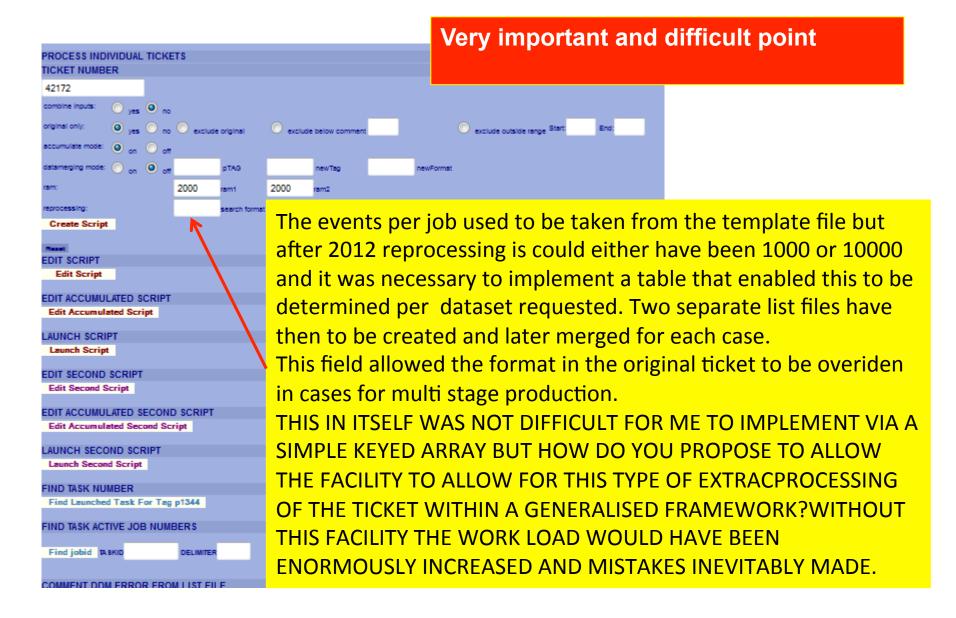
PROCESS INDIVIDUAL TICKETS TICKET NUMBER		
42172		
combine inputs:  yes o no		
original only:	original exclude below comment exclude outside range Start: End:	
accumulate mode:  on  off		
datamerging mode: O on O off	pTAG newTag newFormat	
ram: 2000	ram1 2 <mark>0</mark> 00 ram2	
reprocessing:	search format	
Create Script		
Penel		fue as the AOD files
EDIT SCRIPT	This can be achieve from the original ticket	Trom the AUD files
Edit Script	Firstly the two stage list files are launch (AO	D-DAOD-margad)
EDIT ACCUMULATED SCRIPT	The stry the two stage list lifes are launch (AO	D-DAOD-Merged)
Edit Accumulated Script	Then these boxes are used to defined the in	termediate format
LAUNOU CODIDT		
LAUNCH SCRIPT Launch Script	and new tag and new merging tag.	
Launch Script	(DAOD > NITUD > NITUD margad)	
EDIT SECOND SCRIPT	(DAOD->NTUP->NTUP merged)	
Edit Second Script		
EDIT ACCUMULATED SECOND SCRIPT		
Edit Accumulated Second Script		
LAUNCH SECOND SCRIPT		
Launch Second Script		
FIND TASK NUMBER		
Find Launched Task For Tag p1344		
FIND TASK ACTIVE JOB NUMBERS		
Find jobid TASKID DELIMITER		
COMMENT DOM FRROR FROM LIST FILE	=	

#### Handling multiple formats and projects and events per job

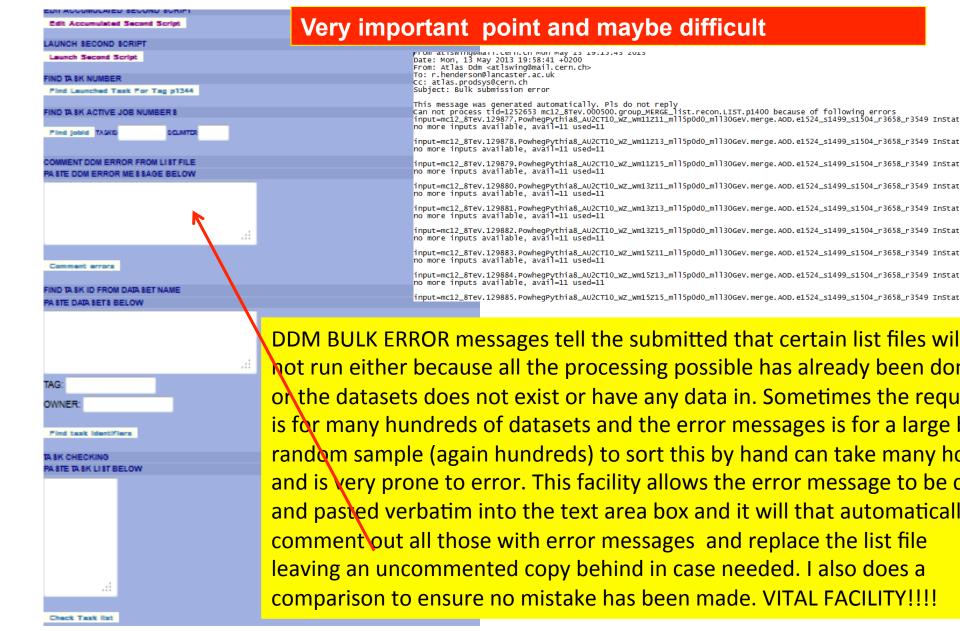
For each of these cases currently these different requests require the list files to be produced in turn with each separately processed and presented as separate sequential files. The current launcher does this automatically processing each of these type in order automatically. Of course the prosys system could be changed such that these things can be define for each dataset separately rather than them having to be in blocks as at present.

Format 2	Project 1
Format 2	Project 2

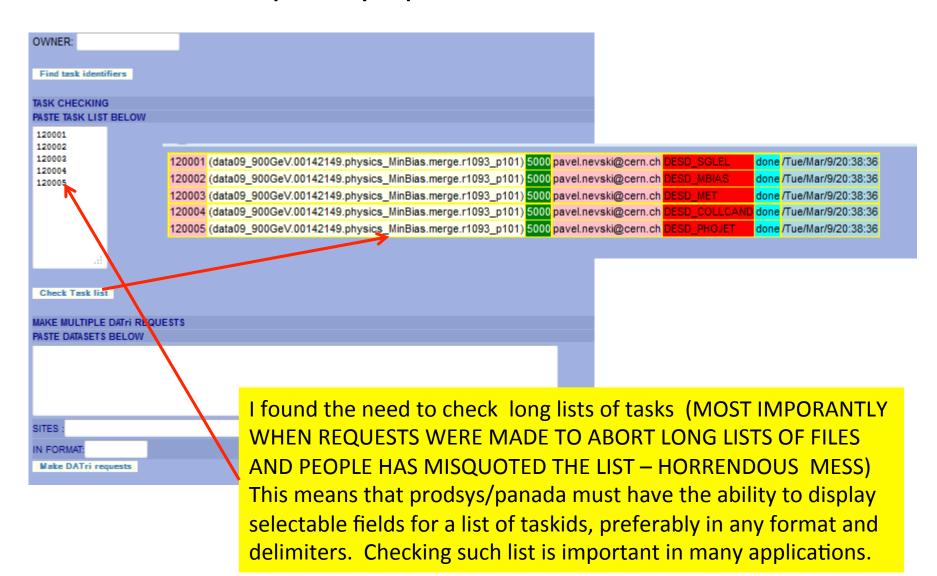
#### The events per job parameter



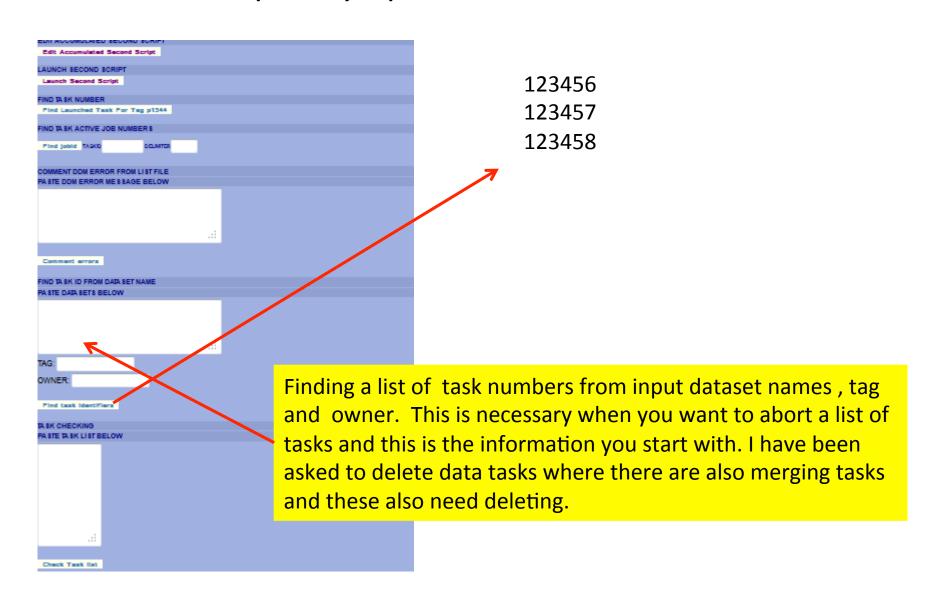
#### General facilities (DDM error processing)



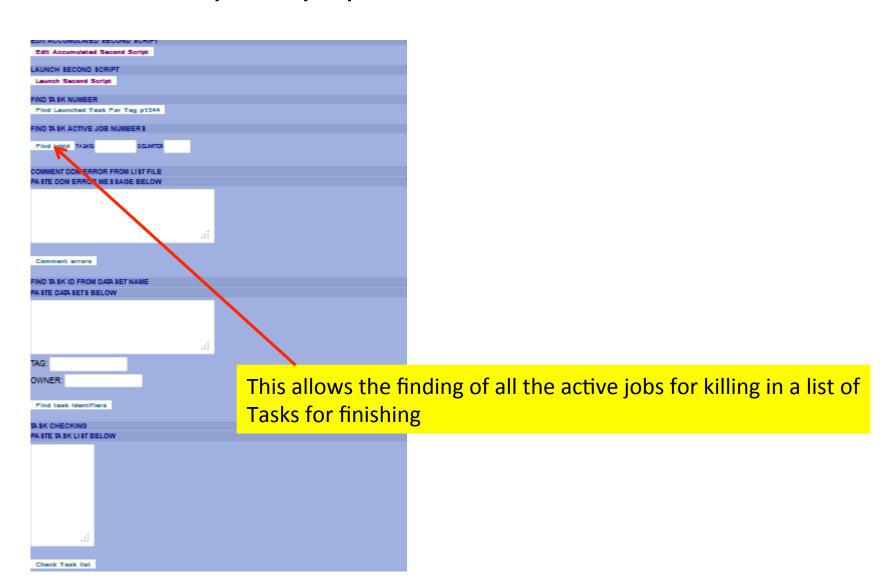
#### Useful prodsys/panda extensions



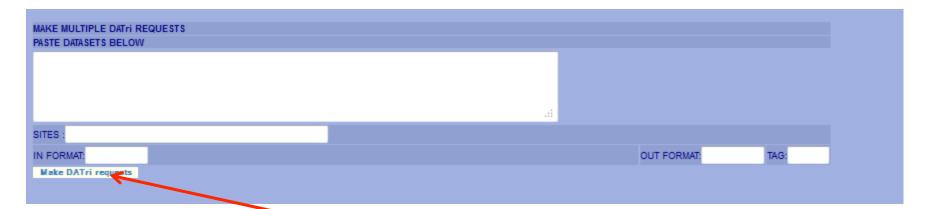
#### Useful prodsys/panda extensions II



## Useful prodsys/panda extensions Ili



## Useful prodsys/panda extensions IV



This allows for multiple datri requests to be made for lists of files. For more than a few files the manual system very laborious.