

DC3b PT1.2 Production Run Status

This document lists runs of the DC3b PT1.2 Release Production pipelines

Refer to [DC3bPT12ProcessedVisits](#) for more detailed information on which visits were processed by which run(s).

PT1.2 DC3b 3000 series

RunID	Collection	# of Visits	Started	Run On	Original Product Directory	Comments	Execution Time	Backup
<i>Grand Total</i>		449 / 449 visits complete				A configuraton of 95 workers on 16 nodes was used for all runs ingestProcessed on all runs is complete		
pt12prod_im3001	<u>ImSim</u>	40 (7556/7560 CCDs)	23 July 2011	Lonestar	Data on Abe/Lincoln?	No reported errors; 4 silent errors;	3:22:48	
pt12prod_im3002	<u>ImSim</u>	40 (7541/7560 CCDs)	23 July 2011	Lonestar	Data on Abe/Lincoln?	14 errors reported in icPsfDetermination Stage; details follow in box below	3:22:49	
pt12prod_im3005	<u>ImSim</u>	40 (7556/7560 CCDs)	24 July 2011	Lonestar	Data on Abe/Lincoln?	No reported errors; 4 silent errors;	4:41:59	
pt12prod_im3006	<u>ImSim</u>	40 (7552/7560 CCDs)	24 July 2011	Lonestar	Data on Abe/Lincoln?	1 reported error; 7 silent errors;	3:34:10	
pt12prod_im3007	<u>ImSim</u>	40 (7550/7560 CCDs)	25 July 2011	Lonestar	Data on Abe/Lincoln?	4 reported error; 6 silent errors;	3:35:54	
pt12prod_im3008	<u>ImSim</u>	40 (7554/7560 CCDs)	25 July 2011	Lonestar	Data on Abe/Lincoln?	No reported errors; 6 silent errors;	3:46:52	
pt12prod_im3009	<u>ImSim</u>	40 (7557/7560 CCDs)	26 July 2011	Lonestar	Data on Abe/Lincoln?	No reported errors; 3 silent errors;	3:23:38	
pt12prod_im3010	<u>ImSim</u>	40 (7556/7560 CCDs)	26 July 2011	Lonestar	Data on Abe/Lincoln?	No reported errors; 4 silent errors;	3:24:02	
pt12prod_im3011	<u>ImSim</u>	40 (7554/7560 CCDs)	27 July 2011	Lonestar	Data on Abe/Lincoln?	4 reported errors; 2 silent errors;	3:21:03	

		CCDs)				
pt12prod_im3013	<u>ImSim</u>	40 (7556/7560 CCDs)	28 July 2011	Lonestar	Data on Abe/Lincoln?	No reported errors; 4 silent errors; A network outage between TACC and NCSA caused us to lose a few hours in the 3000 timetable, but connectivity is restored.
pt12prod_im3014	<u>ImSim</u>	40 (7552/7560 CCDs)	29 July 2011	Lonestar	Data on Abe/Lincoln?	No reported errors; 8 silent errors;
pt12prod_im3015	<u>ImSim</u>	9 (1701/1701 CCDs)	29 July 2011	Lonestar	Data on Abe/Lincoln?	No reported errors; no silent errors;

Source Association 3000 series

221/221 Sky Tiles are complete.

The ingest for Source Association (without reference matching) is complete (database: rplante_PT1_2_u_pt12prod_im3000).

The reference matching calculation for Source Association is done.

im3001 failed sensors

Four pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_28	6499767	886736181	2,3	1,2	icRemeasure
PT1Pipe_58	6498785	886736181	0,1	2,0	sfmSourceMeasure
PT1Pipe_61	7290678	886946741	1,2	1,2	icRemeasure
PT1Pipe_75	5180058	887676511	1,2	1,0	icRemeasure

im3002 failed sensors

The following 14 sensors caused exceptions in PSF determination or elsewhere (traceback messages below):

worker id	log id	visit	raft	sensor	message
PT1Pipe_49	574361	887252571	1,4	0,2	0: Message: You only have 2 eigen images (you asked for 3)
PT1Pipe_23	614883	887252571	3,2	2,2	0: Message: You only have 2 eigen images (you asked for 3)
PT1Pipe_49	628943	887252571	3,2	0,0	

					0: Message: Please provide at least one Image for me to update
PT1Pipe_63	692560	887252571	4,2	2,0	0: Message: Please provide at least one Image for me to update
PT1Pipe_17	699606	887252571	1,2	0,0	0: Message: You only have 2 eigen images (you asked for 3)
PT1Pipe_28	718246	887252571	1,1	2,2	0: Message: You only have 2 eigen images (you asked for 3)
PT1Pipe_76	730400	887252571	4,1	2,1	0: Message: You only have 1 eigen images (you asked for 3)
PT1Pipe_19	731691	887252571	4,1	0,0	0: Message: You only have 2 eigen images (you asked for 3)
PT1Pipe_20	4381258	886891941	2,4	2,0	IndexError: invalid index
PT1Pipe_74	7850813	887252551	3,4	0,2	0: Message: Please provide at least one Image for me to update
PT1Pipe_49	7872127	887252551	0,3	1,2	0: Message: Please provide at least one Image for me to update
PT1Pipe_36	7881017	887252551	0,3	1,1	0: Message: You only have 1 eigen images (you asked for 3)
PT1Pipe_68	8011494	887252551	3,1	2,1	0: Message: You only have 2 eigen images (you asked for 3)
PT1Pipe_30	8396820	885594721	1,2	1,0	0: Message: Please provide at least one Image for me to update

In addition, five pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_41	5892787	886948051	3,0	1,1	icRemeasure
PT1Pipe_47	5285719	886947111	1,4	0,2	icRemeasure
PT1Pipe_48	8464949	885594721	2,1	1,1	icRemeasure
PT1Pipe_64	3891562	886862911	3,4	0,0	icRemeasure
PT1Pipe_84	6054970	886998681	1,2	2,1	icRemeasure

im3005 failed sensors

Four pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_15	8522257	886894861	3,0	1,2	icSourceMeasure
PT1Pipe_17	6468552	886469101	0,3	0,2	icRemeasure
PT1Pipe_6	7821599	886735471	4,2	1,0	icRemeasure
PT1Pipe_83	4192557	888085351	3,0	1,1	icRemeasure

im3006 failed sensors

The following sensor caused an exception in PSF determination (traceback message below):

worker id	log id	visit	raft	sensor	message
PT1Pipe_65	9022137	888082761	1,1	0,0	RuntimeError: No candidate PSF sources

Seven pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_16	4090733	886238041	4,3	1,1	icRemeasure
PT1Pipe_24	2839534	886294821	1,3	2,2	icRemeasure
PT1Pipe_31	628619	887252591	1,2	1,2	icRemeasure
PT1Pipe_42	4607587	886469601	2,3	1,1	icRemeasure
PT1Pipe_58	2722161	886294821	4,3	2,2	sfmSourceMeasure
PT1Pipe_85	1175015	887676141	1,3	2,2	icRemeasure
PT1Pipe_95	6448269	885450721	1,0	2,0	icRemeasure

im3007 failed sensors

The following sensors caused exceptions in PSF determination (traceback messages below):

worker id	log id	visit	raft	sensor	message
PT1Pipe_84	6216446	886257211	0,3	1,2	0: Message: You only have 2 eigen images (you asked for 3)
PT1Pipe_37	6920063	886915171	4,1	2,1	RuntimeError: No candidate PSF sources
PT1Pipe_54	7612638	887252941	3,4	1,2	RuntimeError: No candidate PSF sources
PT1Pipe_74	7636473	887252941	4,3	2,1	RuntimeError: No candidate PSF sources

Six pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_27	4742024	886468841	2,0	0,2	icRemeasure
PT1Pipe_34	2540786	887476271	1,2	2,1	icRemeasure
PT1Pipe_63	3856835	886237731	4,1	2,2	icRemeasure
PT1Pipe_75	5800782	886236101	2,0	1,2	icRemeasure
PT1Pipe_76	2725212	887477741	1,4	0,2	icRemeasure
PT1Pipe_90	4723534	886468841	1,1	2,0	icRemeasure

im3008 failed sensors

Six pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_15	1448741	888138611	1,0	0,0	icRemeasure
PT1Pipe_3	2921524	886893801	0,3	0,1	icRemeasure
PT1Pipe_33	8578892	887477511	4,3	1,1	icRemeasure
PT1Pipe_47	9391200	885449191	2,2	1,2	icRemeasure
PT1Pipe_5	3643859	887755541	3,3	1,2	icRemeasure
PT1Pipe_57	5174373	886264391	1,3	1,2	icRemeasure

im3009 failed sensors

Three pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_13	4377442	888117910	2,3	0,2	icRemeasure
PT1Pipe_46	6739456	887000460	3,4	2,1	icRemeasure
PT1Pipe_6	3706930	887282620	2,2	1,0	icRemeasure

im3010 failed sensors

Four pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_34	7088672	888116880	1,1	1,0	icRemeasure
PT1Pipe_41	7690244	888160970	3,3	2,2	icRemeasure
PT1Pipe_75	769233	887889240	1,1	2,0	icRemeasure
PT1Pipe_95	621987	887889240	4,2	0,1	sfmSourceMeasure

im3011 failed sensors

The following sensors caused exceptions:

worker id	log id	visit	raft	sensor	message
PT1Pipe_11	363125	888381700	1,3	0,1	0: Message: Please provide at least one Image for me to update
PT1Pipe_88	8081133	887238700	2,4	0,2	0: Message: Please provide at least one Image for me to update
PT1Pipe_76	8105696	887238700	0,3	0,0	0: Message: Please provide at least one Image for me to update
PT1Pipe_81	8211716	887238700	3,2	1,1	0: Message: You only have 2 eigen images (you asked for 3)

Two pipelines died without exceptions:

worker id	log id	visit	raft	sensor	failed stage
PT1Pipe_16	1895862	887030150	3,0	0,2	icRemeasure
PT1Pipe_6	245446	888380680	3,4	1,0	icRemeasure

Traceback messages

```
maskedImage_tag&, const typename lsst::afw::image::ImagePca<MaskedImageT>::ImageList&, const std::vector<double,
```

```
maskedImage_tag&, const typename lsst::afw::image::ImagePca<MaskedImageT>::ImageList&, const std::vector<double,
```

```
maskedImage_tag&, const typename lsst::afw::image::ImagePca<MaskedImageT>::ImageList&, const std::vector<double,
```

ot12prod_im3006 :

```
 | Traceback (most recent call last):
ts/tg/lsst/lsst_home_445/Linux64/pex_harness/4.4.0.1/python/lsst/pex/harness/Slice.py", line 575, in tryProces
Process()
ts/tg/lsst/lsst_home_445/Linux64/pex_harness/4.4.0.1/python/lsst/pex/harness/stage.py", line 353, in applyProce
board)
ts/tg/lsst/lsst_home_445/Linux64/meas_pipeline/4.4.0.1/python/lsst/meas/pipeline/psfDeterminationStage.py", li
= self.starSelector.selectStars(exposure, sourceSet)
ts/tg/lsst/lsst_home_445/Linux64/meas_algorithms/4.4.1.1/python/lsst/meas/algorithms/secondMomentStarSelector.
getClumps(display=display)
ts/tg/lsst/lsst_home_445/Linux64/meas_algorithms/4.4.1.1/python/lsst/meas/algorithms/secondMomentStarSelector.
("No candidate PSF sources")
date PSF sources
```

skedImage_tag&, const typename lsst::afw::image::ImagePca<MaskedImageT>::ImageList&, const std::vector<double,

PT1.2 DC3b 2000 series

RunID	Collection	# of Visits	Started	Run On	Original Product Directory	Comments	Execution Time	Backup
pt12prod_im2005	<u>ImSim</u>	10 (1887/1890 CCDs)	23 June 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	5:40:34*	
pt12prod_im2006	<u>ImSim</u>	20 (3767/3780 CCDs)	23 June 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	1:50:43	
pt12prod_im2007	<u>ImSim</u>	10 (1879/1890 CCDs)	23 June 2011	Lincoln	Data on Abe/Lincoln?	15 workers on 4 nodes	8:57:08	
pt12prod_im2008	<u>ImSim</u>	40 (7542/7560 CCDs)	23 June 2011	Lonestar	Data on Abe/Lincoln?	189 workers on 32 nodes	1:51:15	
pt12prod_im2009	<u>ImSim</u>	40 (7546/7560 CCDs)	24 June 2011	Lonestar	Data on Abe/Lincoln?	189 workers on 32 nodes	1:51:08	
pt12prod_im2010	<u>ImSim</u>	40 (7547/7560 CCDs)	24 June 2011	Lonestar	Data on Abe/Lincoln?	189 workers on 32 nodes	1:52:08	
pt12prod_im2011	<u>ImSim</u>	40 (7550/7560 CCDs)	24 June 2011	Lincoln	Data on Abe/Lincoln?	79 workers on 16 nodes	8:07:21	
pt12prod_im2014	<u>ImSim</u>	19 (3586/3591 CCDs)	25 June 2011	Lincoln	Data on Abe/Lincoln?	79 workers on 16 nodes one visit (out of 20) was not on disk	4:04:52	
pt12prod_im2015	<u>ImSim</u>			Lonestar			1:02:54	

		20 (3768/3780 CCDs)	25 June 2011		Data on Abe/Lincoln?	189 workers on 32 nodes	
pt12prod_im2019	<u>ImSim</u>	40 (7552/7560 CCDs)	26 June 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	3:26:19
pt12prod_im2022	<u>ImSim</u>	1 (189/189 CCDs)	28 June 2011	Lincoln	Data on Abe/Lincoln?	The missing visit of pt12prod_im2014	1:00:36
pt12prod_im2024	<u>ImSim</u>	20 (3773/3780 CCDs)	29 June 2011	Lincoln	Data on Abe/Lincoln?	79 workers on 16 nodes	4:38:07
pt12prod_im2025	<u>ImSim</u>	20 (3776/3780 CCDs)	30 June 2011	Lincoln	Data on Abe/Lincoln?	79 workers on 16 nodes	4:13:54
pt12prod_im2029	<u>ImSim</u>	20 (3771/3780 CCDs)	10 July 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	1:44:01
pt12prod_im2030	<u>ImSim</u>	20 (3770/3780 CCDs)	10 July 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	1:51:01
pt12prod_im2031	<u>ImSim</u>	20 (3773/3780 CCDs)	11 July 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	1:39:47
pt12prod_im2032	<u>ImSim</u>	22 (4149/4158 CCDs)	12 July 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	1:56:18
pt12prod_im2033	<u>ImSim</u>	26 (CCDs)	12 July 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	2:23:42

Note: execution time is from the start to the end of the logs and does not include time spent waiting in queues or file transfer time.

• = run with daf_butlerUtils 4.4.0.0 and thus slow registry access.

Runs pt12prod_im2005 -- pt12prod_im2022 will comprise the first 280 visits in skytile order.

Initial runs prior to starting in skytile order (tail end visits)

pt12prod_im2002	<u>ImSim</u>	12 (2263/2268 CCDs)	22 June 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	3:27:27*
pt12prod_im2004	<u>ImSim</u>	9 (1698/1701 CCDs)	22 June 2011	Lonestar	Data on Abe/Lincoln?	95 workers on 16 nodes	4:57:53*

Total so far: 64323 CCDs processed out of 64449, 0.2% failures.

Source Association

Source Association and the associated ingest are complete for the 221 skytiles. Results are currently at
/cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im2000/SourceAssoc/result.

on Abe/Lincoln?.

PT1.2 DC3b 1000 series

RunID	Collection	# of Visits	Started	Run On	Original Product Directory
pt12prod_im1015	<u>ImSim</u>	4 (v886469051-fz v886469580-fz v886917261-fr v887001130-fr)	3 June 2011	Lonestar	/lsst3/DC3/PT1_2/datarel-runs/pt12prod_im1015
pt12prod_im1017	<u>ImSim</u>	4 (v886735530-fz v886736300-fz v887029100-fr v887030190-fr)	3 June 2011	Lonestar	/lsst3/DC3/PT1_2/datarel-runs/pt12prod_im1017
pt12prod_im1020	<u>ImSim</u>	6	5 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lsst/shelves/datarel-runs/pt12prod_im1
pt12prod_im1029	<u>ImSim</u>	10	8 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lsst/shelves/datarel-runs/pt12prod_im1
pt12prod_im1031	<u>ImSim</u>	10	8 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lsst/shelves/datarel-runs/pt12prod_im1
pt12prod_im1032	<u>ImSim</u>	10	9 June 2011	Lincoln	Data on Abe /cfs/scratch/users/lsst/shelves/datarel-runs/pt12prod_im1
pt12prod_im1040	<u>ImSim</u>	5	9 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lsst/shelves/datarel-runs/pt12prod_im1
pt12prod_im1048	<u>ImSim</u>	13	10 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lsst/shelves/datarel-runs/pt12prod_im1

pt12prod_im1050	<u>ImSim</u>	11	11 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1052	<u>ImSim</u>	10	11 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1053	<u>ImSim</u>	5	11 June 2011	Lincoln	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1054	<u>ImSim</u>	10	12 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1055	<u>ImSim</u>	5	12 June 2011	Lincoln	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1057	<u>ImSim</u>	6	12 June 2011	Lincoln	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1058	<u>ImSim</u>	2	12 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1060	<u>ImSim</u>	7	12 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1061	<u>ImSim</u>	10	13 June 2011	Lonestar	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
pt12prod_im1062	<u>ImSim</u>	3	15 June 2011	Lincoln	Data on Abe at /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
Completed visits	<u>ImSim</u>	131			

Validation Run

pt12prod_im1028	<u>ImSim</u>	4 (v886469051-fz v886469580-fz v886917261-fr	8 June 2011	Lincoln	Data on Abe /cfs/scratch/users/lstt/shelves/datarel-runs/pt12prod_im1
-----------------	--------------	---	-------------------	---------	--

in pt12prod_im1020 :

specific to the visit "887305180":

st.stage: Begin stage loop iteration iStage 280

_im1020

Correct

ST09:35:42.902984

pe_13

52976902984000

ImSim

ApertureCorrectionStage - parallel: Estimating Aperture Correction is in process

_im1020

ST09:35:42.910593

pe_13

52976910593000

ImSim

st.stage.tryProcess FATAL: Traceback (most recent call last):

projects/tg/lsst/lsst_home_445/Linux64/pex_harness/4.3.0.0/python/lsst/pex/harness/Slice.py", line 563, in tryPr

plyProcess()

projects/tg/lsst/lsst_home_445/Linux64/pex_harness/4.3.0.0/python/lsst/pex/harness/stage.py", line 353, in apply

Clipboard)

projects/tg/lsst/lsst_home_445/Linux64/meas_pipeline/4.3.1.2/python/lsst/meas/pipeline/apertureCorrectionStage.p

log=self.log)

projects/tg/lsst/lsst_home_445/Linux64/meas_algorithms/4.3.2.0/python/lsst/meas/algorithms/apertureCorrection.py

lyFit2D(xList, yList, self.apCorrList, weights, poly)

projects/tg/lsst/lsst_home_445/Linux64/meas_algorithms/4.3.2.0/python/lsst/meas/algorithms/apertureCorrection.py

self.resid, self.rank, self.singval = self._fit(z, w, xTerms, yTerms, self.orderPairs)

projects/tg/lsst/lsst_home_445/Linux64/meas_algorithms/4.3.2.0/python/lsst/meas/algorithms/apertureCorrection.py

rank, singval = linalg.lstsq(terms, w*z)

projects/tg/lsst/lsst_home_445/Linux64/external/numpy/1.2.1/lib/python/numpy/linalg/linalg.py", line 1289, in ls

int(math.log(float(min(m, n))/2.)) + 1)

ValueError: math range error