

# NOvA Production - Feature #9957

## Improved Offsite Running

08/28/2015 11:09 AM - Alexander Himmel

<b>Status:</b>	Assigned	<b>Start date:</b>	08/28/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Enrique Arrieta Diaz	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Description</b>			
Try our nova production jobs and various offsite clusters, see what works and what doesn't.			

### History

#### #1 - 09/11/2015 11:43 AM - Enrique Arrieta Diaz

- File *Performance.png* added

#### Offsite locations performance

The performance of the offsite sites is represented by a performance *score* that runs continuously from 1 to 16, where 1 is the best possible performance. This *score* takes into account:

- Success Rate, S: number of completed jobs / number of submitted jobs.
- job\_time, J: the time elapsed between the first job starts and the end of the last job.
- idle\_time< I: the time elapsed between submission of the jobs and the start of the first job.
- Average Time Per File, A.

Score = (S+J+I+A)/4.

The highest success rate gets a 1 and the lowest gets a 16. The lowest: job time, idle time, and average time per file get a 1, and the highest get a 16. If two or more sites tie in their positions they are assigned the same number.

Sites with the lowest performance scores are recommended.

The site named: *Offsite*, represents the jobs sent offsite using the option: `--offsite_only`.

Implementing the offsite locations performance measure is a work in progress.

#### #2 - 09/11/2015 11:51 AM - Enrique Arrieta Diaz

- File *success.png* added

#### Success Rate

#### #3 - 09/11/2015 11:53 AM - Enrique Arrieta Diaz

- File *Full.png* added

#### Full Job Time

#### #4 - 09/11/2015 11:54 AM - Enrique Arrieta Diaz

- File *Idle.png* added

#### Idle Time

#### #5 - 09/11/2015 11:57 AM - Enrique Arrieta Diaz

- File *Usage.png* added

#### Offsite Locations Share

The figure presents the percentage of jobs that are sent to the various locations when the `--offsite_only` option is used.

**#6 - 09/14/2015 03:24 PM - Enrique Arrieta Diaz**

- File *success.png* added

Enrique Arrieta Diaz wrote:

**Success Rate**

**#7 - 09/14/2015 03:25 PM - Enrique Arrieta Diaz**

- File *Full.png* added

Enrique Arrieta Diaz wrote:

**Full Job Time**

**#8 - 09/14/2015 03:26 PM - Enrique Arrieta Diaz**

- File *Idle.png* added

Enrique Arrieta Diaz wrote:

**Idle Time**

**#9 - 09/14/2015 03:27 PM - Enrique Arrieta Diaz**

- File *deleted (Idle.png)*

**#10 - 09/14/2015 03:29 PM - Enrique Arrieta Diaz**

- File *Idle.png* added

Enrique Arrieta Diaz wrote:

**Idle Time**

**#11 - 09/14/2015 03:30 PM - Enrique Arrieta Diaz**

- File *Performance.png* added

**#12 - 09/14/2015 03:30 PM - Enrique Arrieta Diaz**

- File *Usage.png* added

Enrique Arrieta Diaz wrote:

**Offsite Locations Share**

The figure presents the percentage of jobs that are sent to the various locations when the --offsite\_only option is used.

**#13 - 09/14/2015 03:31 PM - Enrique Arrieta Diaz**

- File *deleted (Performance.png)*

**#14 - 09/14/2015 03:31 PM - Enrique Arrieta Diaz**

- File *deleted (success.png)*

**#15 - 09/14/2015 03:31 PM - Enrique Arrieta Diaz**

- File *deleted (Full.png)*

**#16 - 09/14/2015 03:31 PM - Enrique Arrieta Diaz**

- File deleted (*Idle.png*)

**#17 - 09/14/2015 03:31 PM - Enrique Arrieta Diaz**

- File deleted (*Usage.png*)

**#18 - 09/14/2015 03:42 PM - Enrique Arrieta Diaz**

The first test included in the plots used the *mccheckoutjob.fcl*, and 2GB of requested memory. The average time per file was 2 minutes and 12 seconds.

The second and third tests included in the plots used *mccheckoutjob.fcl*, and 2.4GB of requested memory. The average time per file was 2 minutes and 13 seconds.

The fourth test included in the plots used *prod\_reco\_pidpart\_numi\_job.fcl*, and 2GB of requested memory. The average time per file was 126 minutes.

**#19 - 09/15/2015 11:21 AM - Alexander Himmel**

- Status changed from New to Assigned

**#20 - 09/21/2015 03:30 PM - Enrique Arrieta Diaz**

- File deleted (*success.png*)

**#21 - 09/21/2015 03:30 PM - Enrique Arrieta Diaz**

- File deleted (*Full.png*)

**#22 - 09/21/2015 03:30 PM - Enrique Arrieta Diaz**

- File deleted (*Idle.png*)

**#23 - 09/21/2015 03:30 PM - Enrique Arrieta Diaz**

- File deleted (*Performance.png*)

**#24 - 09/21/2015 03:30 PM - Enrique Arrieta Diaz**

- File deleted (*Usage.png*)

**#25 - 09/21/2015 03:31 PM - Enrique Arrieta Diaz**

- File *success.png* added

Success Rate Plot

**#26 - 09/21/2015 03:37 PM - Enrique Arrieta Diaz**

- File *job\_times.png* added

Job times plot

**#27 - 09/21/2015 03:39 PM - Enrique Arrieta Diaz**

- File *share.png* added

Share plot

**#28 - 09/21/2015 03:40 PM - Enrique Arrieta Diaz**

- File *performance.png* added

Performance plot

**#29 - 09/22/2015 05:05 PM - Enrique Arrieta Diaz**

- File deleted (*success.png*)

**#30 - 09/22/2015 05:05 PM - Enrique Arrieta Diaz**

- File deleted (*job\_times.png*)

#31 - 09/22/2015 05:05 PM - Enrique Arrieta Diaz

- File deleted (*share.png*)

#32 - 09/22/2015 05:05 PM - Enrique Arrieta Diaz

- File deleted (*performance.png*)

#33 - 09/22/2015 05:06 PM - Enrique Arrieta Diaz

- File *Success.png* added

Success plot

#34 - 09/22/2015 05:06 PM - Enrique Arrieta Diaz

- File *Full\_job\_time.png* added

Full Job Times Plot

#35 - 09/22/2015 05:07 PM - Enrique Arrieta Diaz

- File *Usage.png* added

Offsite share plot

#36 - 09/22/2015 05:07 PM - Enrique Arrieta Diaz

- File *Performance.png* added

Performance Plot

**Files**

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Success.png	44.6 KB	09/22/2015	Enrique Arrieta Diaz
Full_job_time.png	48.7 KB	09/22/2015	Enrique Arrieta Diaz
Usage.png	38.1 KB	09/22/2015	Enrique Arrieta Diaz
Performance.png	42.9 KB	09/22/2015	Enrique Arrieta Diaz