

## GlideinWMS - Bug #20320

### Improve how subentries are picked for metasites

07/16/2018 09:45 AM - Marco Mascheroni

<b>Status:</b>	Closed	<b>Start date:</b>	07/16/2018
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Marco Mascheroni	<b>% Done:</b>	0%
<b>Category:</b>	Factory	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	v3_4_1	<b>Spent time:</b>	0.00 hour
<b>First Occurred:</b>		<b>Stakeholders:</b>	
<b>Occurs In:</b>			

#### Description

Currently every time glideFactoryLib.submitGlideins is called we pick up one of the subentries and submit all the glideins to this subentry for this iteration (picking the subentry that has less submit+idle). This creates problems in case one of the subentries is broken and glideins goes immediately to held: every iteration we will pick up the same broken entry. I am thinking different ways of solving this:

- 1) Consider held jobs when picking the submit file. I can try this, but I suspect it won't help because held jobs may be removed.
- 2) Round robin: every iteration we pick up one different sub-entry and submit all the glideins there. We don't care about load anymore. The problem is that you may randomly overload one of the entries, especially because submitGlideins submit N glideins at each iteration.
- 2.a) Round Same idea, but at each iteration you submit to all entries instead of just one. There might possibly be some load issues because you increase the number of condor\_submit, but they are gonna be done sequentially, so I don't think we should be worrying.
- 3) Assuming we end up doing multiple condor\_submit per submitGlideins invocation, we can be smarter in selecting how many glideins to submit per each sub entry, for example assuming 4 subentries, 1 full, 1 empty and 2 half empty, and assuming you want to submit 4 glideins, you can submit 0 4 2 2 glideins (issue still being the empty one is probably the broken one...)

#### History

##### #1 - 08/02/2018 10:45 AM - Marco Mascheroni

- Status changed from New to Feedback
- Assignee changed from Marco Mascheroni to Marco Mambelli

##### #2 - 08/15/2018 12:03 PM - Marco Mambelli

- Assignee changed from Marco Mambelli to Marco Mascheroni

##### #3 - 08/30/2018 04:53 AM - Marco Mascheroni

- Assignee changed from Marco Mascheroni to Marco Mambelli

##### #4 - 09/07/2018 12:34 PM - Marco Mambelli

- Status changed from Feedback to Resolved
- Assignee changed from Marco Mambelli to Marco Mascheroni

##### #5 - 10/18/2018 04:58 PM - Marco Mambelli

- Status changed from Resolved to Closed