

## GlideinWMS - Feature #21711

### Add a portable condor\_chirp for jobs running under GlideinWMS

01/16/2019 06:04 PM - Marco Mambelli

<b>Status:</b>	Closed	<b>Start date:</b>	01/16/2019
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Bruno Coimbra	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	v3_6_2	<b>Spent time:</b>	0.00 hour
<b>Stakeholders:</b>			
<b>Description</b>			
GlideinWMS does include condor_chirp As requested by CMS [ <a href="#">#6424</a> ], [ <a href="#">#6430</a> ] to allow jobs to use CHIRP. With the introduction of Singularity condor_chirp is not always available: - the new environment may hide the Glidein condor to the job - the job may run on a different platform (e.g. Glidein uses base OS, EL7, and job asks for and runs in EL6)  Some VOs ran into errors while trying to use the Glidein provided condor_chirp  A solution could be to download and make available a basic condor for the platform of the Singularity image, or make always available binaries for a set of platform or provide a multy-platform client (e.g. the python client <a href="https://github.com/htcondor/htchirp">https://github.com/htcondor/htchirp</a> )			
<b>Related issues:</b>			
Related to GlideinWMS - Milestone #19515: Roadmap for Singularity support		<b>New</b>	<b>03/27/2018</b>

#### History

##### #1 - 01/16/2019 06:09 PM - Marco Mambelli

As from an email from Jaime:

```
ssh-to-job and chirp should work with singularity jobs. For chirp, the singularity image will need to include a chirp client. There are several options for this:
```

- + The condor\_chirp tool, which depends on the condor and classad libraries.
- + A pure python module, available here: <https://github.com/htcondor/htchirp>
- + Write your own client, as documented here: <http://ccl.cse.nd.edu/software/chirp/>

##### #2 - 02/11/2019 06:24 PM - Marco Mambelli

- Related to Milestone #19515: Roadmap for Singularity support added

##### #3 - 08/16/2019 04:43 PM - Marco Mambelli

- Target version changed from v3\_5\_1 to v3\_6\_1

##### #4 - 09/16/2019 05:05 PM - Marco Mambelli

- Target version changed from v3\_6\_1 to v3\_6\_2

##### #5 - 10/29/2019 11:00 AM - Marco Mambelli

- Assignee set to Bruno Coimbra

The htchirp library is just an API that allows to use chirp functionalities in Python.

Users use condor\_chirp, a client program.

This ticket should produce a drop-in replacement of condor\_chirp, <https://research.cs.wisc.edu/htcondor/manual/v8.7.9/Condorchirp.html>

e.g. condor\_chirp.py - accepting the same command-line options and behaving similarly

This should be distributed in GWMS together w/ the needed requirements (htchirp)

Possibly should be compatible w/ both python 2 (2.6, 2.7) and 3 (3.6).

[http://research.cs.wisc.edu/htcondor/manual/current/condor\\_chirp.html](http://research.cs.wisc.edu/htcondor/manual/current/condor_chirp.html)

<https://github.com/htcondor/htchirp>

Note that the ND chirp server does not support HTCondor chirp default authentication. Tests should be done w/in a condor (interactive) job.

The goal once this is done is to package it got the Glideins and to contribute the code to the HTCondor team. GlideinWMS will not maintain this code.

I started a github repo, pychirp, so we can test using the new development model. Please fork the repo and go from there: <https://github.com/glideinWMS/pychirp>

**#6 - 01/27/2020 04:45 PM - Bruno Coimbra**

- % Done changed from 0 to 100
- Status changed from New to Feedback

A new Python-based condor\_chirp was added as a drop-in replacement for the original condor\_chirp. These changes also include gwms-python, a wrapper script for Python to be used by GlideinWMS scripts written in this language. The new condor\_chirp uses htchirp client which we are shipping as a tarball while the newest version of the package is not published.

The changes can be found on the following branch:  
v36/21711-condor\_chirp

**#7 - 01/29/2020 10:13 AM - Marco Mambelli**

- Assignee changed from Bruno Coimbra to Marco Mambelli

**#8 - 01/29/2020 05:40 PM - Marco Mambelli**

- Assignee changed from Marco Mambelli to Bruno Coimbra

**#9 - 03/03/2020 02:09 PM - Marco Mambelli**

- Status changed from Feedback to Resolved

**#10 - 04/08/2020 10:47 AM - Marco Mambelli**

- Status changed from Resolved to Closed