

## GlideinWMS - Bug #5621

### Fixed partitioning broken

03/10/2014 11:51 AM - Igor Sfiligoi

<b>Status:</b>	Closed	<b>Start date:</b>	03/10/2014
<b>Priority:</b>	Urgent	<b>Due date:</b>	
<b>Assignee:</b>	Igor Sfiligoi	<b>% Done:</b>	0%
<b>Category:</b>	Glidein	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	v3_2_4	<b>Spent time:</b>	0.00 hour
<b>First Occurred:</b>	v3_2_3	<b>Stakeholders:</b>	
<b>Occurs In:</b>			

#### Description

The fixed partitioning of multi-core glideins seems to be completely broken in 3\_2\_3.

The problem stems from the fact that the glideins try to allocate the whole memory to each and every slot, which of course fails after the first one.

#### History

##### #1 - 03/10/2014 11:54 AM - Igor Sfiligoi

Example error message from Condor

```
03/07/14 20:28:53 (pid:25443) ERROR: Can't allocate 2nd slot of type 1
    Requesting: slot type 1: Cpus: 1, Memory: 16000, Swap: auto, Disk: auto
    Available: Slot #1: Cpus: 7, Memory: 0, Swap: 100.00%, Disk: 100.00%
03/07/14 20:28:53 (pid:25443) ERROR "Ran out of system resources" at line 122 in file /slots/10/dir_25749/user
dir/src/condor_startd.V6/slot_builder.cpp
```

And here is what the Condor was working on:

```
MEMORY=16000
GLIDEIN_MaxMemMBs=16000
SLOT_TYPE_1 = cpus=1, memory=$(GLIDEIN_MaxMemMBs)
```

##### #2 - 03/10/2014 04:48 PM - Igor Sfiligoi

- Status changed from New to Feedback
- Assignee changed from Igor Sfiligoi to Parag Mhashilkar

I have fixed the problem by reverting back to HTCondor auto-partitioning for fixed slots. Since GLIDEIN\_MaxMemMBs is used to set the total amount of memory the glidein can use, there is no need for further micromanagement.

The code is in branch v3/5621 (branched from v3\_2\_3 tag).

Please review.

##### #3 - 03/14/2014 02:32 PM - Parag Mhashilkar

- Status changed from Feedback to Closed
- Assignee changed from Parag Mhashilkar to Igor Sfiligoi

Merged it to branch\_v3\_2.