Package execution failed with exit code '-1073741510'

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Issue

Package execution failed with exit code '-1073741510'

Cause

The error code means "ctrl-c exit application". It is always caused by terminate the task in azure batch.

Resolution

This is always caused by a wrong autoscale formula in azure batch. We can suggest the customer to check their azure batch autoscale formula.

One customer meets this issue, and below is the reply from azure batch team.

Here's what looks to be happening:

The pool is using an autoscale formula that's taken from our documentation:

```
$averageActiveTaskCount = avg($ActiveTasks.GetSample(TimeInterval_Minute * 15));

$TargetDedicated = min(10, $averageActiveTaskCount);
```

Note: This autoscale formula is bad and shouldn't be used. I'm going to get the documentation updated.

The autoscale formula keeps scaling the pool size between 0 and 1. Everytime it is rescaled to 0 the current task is terminated and then requeued.

Once it has attempted to be requeued too many times (1 day) it gives up.

To break down the formula, it is saying:

```
averageActiveTaskCount is FLOOR (ActiveTasks from the last 15 minutes).
```

Because this is a **FLOOR**, if there has been no active tasks at any point during this time it will return 0.

- Once a task is queued, it will take 15 minutes for this value to become positive.
- Then, as soon as the task starts running, the number will go back to zero again ($PendingTasks contains both $Active and $Running)
- At this point the pool will be resized back to zero which will kill any running tasks (as the NodeDeallocationOption is set to 'requeue' by default)
- After 15 minutes the pool will resize up again and attempt to run tasks

So you're seeing a yoyo, with tasks constantly being terminated and requeued.

https://docs.microsoft.com/en-us/azure/batch/batch-automatic-scaling ↗

Do you set this formula or does it come from your customers?

If you set it, you might want to look into updating it and/or changing the node deallocation option.

Additional Information:

- **Icm References**: https://icm.ad.msft.net/imp/IncidentDetails.aspx?Id=33108984 ↗
- **Author**: xiaoyz
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