

MATLAB Job Submission on Alfahd



5/7/2018

Step1: Download the integration files zip folder. After unzipping it copy all the files to location "C:\Program Files\MATLAB\R2018a\toolbox\local" where Matlab installation files are present and paste it.

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Step2: Now you have to connect your MATLAB session to the Alfahd cluster you're your user details using below command "configCluster" as shown below. The activity in first two steps is needed only once, later on you may skip directly to step-3.



Step3: Now you have to define connection parameter "c" to connect your MATLAB session to the Alfahd cluster using below command "c = parcluster" as shown below.

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>> <mark>c = parcluster</mark>		^	다 ans 같 c
c =			
<u>Generic</u> Cluster			
Properties:			
Profile:	al-fahd remote R2018a		
Modified:	false		
Host:	eSightServer		
NumWorkers:	256		
NumThreads:	1		
JobStorageLocation:	C:\Users\Administrator\AppData\Lo		
ClusterMatlabRoot:	/cpgpfs/software/Matlab/MatlabR20		
OperatingSystem:	unix		
		=	
RequiresMathWorksHostedLicensing:	false		
IntegrationScriptsLocation:	C:\Program Files\MATLAB\R2018a\to		
AdditionalProperties:	List properties		
Associated Jobs:			
Number Pending:	0		
Number Oueued:	0		
Number Running:	0		
Number Finished:	2		

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< Parallel Computing Toolbox		c = parcluster returns a cluster object representing the cluster object properties set to default cluster profile, with the cluster object properties set to	uster identified	by the			
< Functions		that profile.	r the values de	anneu m			
parcluster		c = parcluster(profile) returns a cluster object represe	nting the cluste	er identifi	ed		
ON THIS PAGE		by the specified cluster profile, with the cluster object proper	ties set to the	values			
Description		defined in that profile.					
Framples		You can save modified profiles with the saveProfile or save	eAsProfile n	nethod or	na v		

For more details about parcluster type "doc **parcluster**" at command, prompt.

Step4: You can now submit your job using connection parameter handle to batch command as show below,

eg: **j = c.batch('MainProgramName', <mark>'Pool', 63</mark>, '**CurrentFolder', '.', 'AutoAddClientPath',false)

In above command **'Pool'**, **63** will start **64 parallel MATLAB workers i.e.** (63+1 Manager Worker) that will parallelize any of your parfor loops or similar part in the code.

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Current Fol	>> j = fx	c.batch('t	est', 'Poo	Use an identity file to login to 10.146.1.201?	th',false)
				Yes No Cancel	

When prompted for an identity file in User Credentials prompt select '**No**' and enter your password as below:

Please enter the password for user 'akber' on '	C
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OK Cancel	

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ent Fol	>> :	<pre>j = c.batch('test', 'P</pre>	ool', 63, 'CurrentFolder', '.', 'AutoAddClientPat	h',false)
Curre	a	dditionalSubmitArgs =		'n
		'ntasks=64lice	enses=MATLAB_Distrib_Comp_Engine:64'	
	ć	=		
		Job		
		Properties:		
		ID:	7	
		Type:	pool	
		Username:	akber	
		State:	running	
		SubmitDateTime:	06-May-2018 14:43:44	
		StartDateTime:		
		Running Duration:	0 days 0h 0m 0s	
		NumWorkersRange:	[64 64]	
		NumThreads:	1	
		AutoAttachFiles:	true	
		Auto Attached Files:	List files	
		AttachedFiles:	{}	
		AutoAddClientPath:	false	
		AdditionalPaths:		
		EnvironmentVariables:	{}	
		Associated Tasks:		
		Number Pending:	64	
		Number Running:	0	
		Number Finished:	0	
		Task ID of Errors:	[]	
		Task ID of Warnings:	[]	
	$f_{\mathbf{x}}$			
	•			

Then your job is submitted on the Alfahd cluster whose details are furnished in the command prompt with its status. You can then monitor the status of your jobs, see command prompt outputs on cluster, download results once job is done and have a glance at list of jobs on the cluster using commands: j.State , j.diary, j.fetchoutputs{:} & c.Jobs respectively, as shown below.

>> j.St	ate						
ans =							
'ru	nning'						
>> j. S Start	diary tart Diary Simulatio	7 on					
t =							
10	.2122						
Simul	ation Comp	pleted					
E	nd Diary -						
>> j	.fetchOut	tputs{:}					
a	ans =						
	10.212	2					
>> c.Job	08						
ans =							
7x1 <u>Jok</u>	array:						
-	ID	Type	State	Finish	DateTime	Username	Tasks
1	1	pool	finished	29-Apr-2018	08:18:02	akber	5
2	2	pool	finished	29-Apr-2018	08:18:32	akber	<u>5</u>
3	<u>4</u>	pool	finished			akber	64
4	<u>5</u>	pool	finished			akber	64
5	<u>6</u>	pool	finished			akber	64

6

7

8

pool

pool

finished

finished

j.fetchoutputs{:} is used to retrieve function output arguments; if using batch with a script, use **i.load** instead. Data that has been written to files on the cluster will be retrieved/downloaded directly from the file system once **i.load** is executed.

64

64

akber

akber

>> j.State	
ans =	
'running'	
>> j.State	
ans =	
'finished'	
>> j.load	

When submitting jobs, with multiple tasks, you will have to specify the task number to view results of a previously completed job using command listed below:

% Find the old job

j = c.findJob('ID', 9);

% Retrieve the state of the job

j.State

% Fetch the results

j.fetchOutputs{:};

% If necessary, retrieve output/error log file

c.getDebugLog(j)

```
>> j = c.findJob('ID', 9);
>> j.State
ans =
    'finished'
>> c.getDebugLog(j)
LOG FILE OUTPUT:
Node list: cpg044
srun -1 -n 5 /cpgpfs/software/Matlab/MatlabR2018a/bin/worker -parallel
0:
0:
                               < M A T L A B (R) >
0:
                     Copyright 1984-2018 The MathWorks, Inc.
0:
                      R2018a (9.4.0.813654) 64-bit (glnxa64)
0:
                                 February 23, 2018
0:
1:
```

Alternatively, to retrieve job results via a GUI, use the Job Monitor (Parallel > Monitor Jobs).



Job	bb Monitor 💿 📝 Editor - parallel_example.m						
Se	lect Profile:	al-fahd remote R2018a (default)					✓ Show jobs from all users
	D Usernam	e Submit Time	Finish Time	Tas	State	Description	
4	akber	Sun May 06 14:39:50 AST 2018	Sun May 06 14:39:13 AST 2018	64	finished	Batch job running script: test.	
5	akber	Sun May 06 14:40:28 AST 2018	Sun May 06 14:39:53 AST 2018	64	finished	Batch job running script: test.	
6	akber	Sun May 06 14:41:56 AST 2018	Sun May 06 14:41:11 AST 2018	64	finished	Batch job running script: test.	
7	akber	Sun May 06 14:43:44 AST 2018	Sun May 06 15:04:51 AST 2018	64	finished	Batch job running script: test.	
8	akber	Sun May 06 15:14:39 AST 2018	Sun May 06 15:13:55 AST 2018	64	finished	Batch job running script: test.	
9	akber	Mon May 07 07:52:27 AST 20	. Mon May 07 07:51:39 AST 20	5	A finished	Ratch job running function: par	allel_example.
				_	Cancel Delete Show details	5	
					Show errors		
					Show warnir	ngs	
					Show diary		
					Fetch outpu	ts	
Lo	1st updated at Mon May 07 08:00:29 AST 2018 Auto update: Every 5 minutes V Update Now						

For more details about batch, type "doc **batch**"

batch	patch						
Run MATLAB script or	un MATLAB script or function on worker						
Syntax	Syntax						
<pre>j = batch('aSc j = batch(myCl j = batch(fcn, j = batch(myCl j = batch(, Arguments</pre>	<pre>j = batch('aScript') j = batch(myCluster, 'aScript') j = batch(fcn,N,{x1,, xn}) j = batch(myCluster,fcn,N,{x1,,xn}) j = batch(,'p1',v1,'p2',v2,) Arguments</pre>						
j	The batch job object.						
'aScript'	The script of MATLAB code to be evaluated by the worker.						
myCluster	Cluster object representing cluster compute resources.						
fcn	Function handle or function name to be evaluated by the worker.						
N	The number of output arguments from the evaluated function.						
{x1,, xn}	Cell array of input arguments to the function.						
p1, p2	Object properties or other arguments to control job behavior.						
v1, v2	Initial values for corresponding object properties or arguments.						