

## remoteparfor>remoteparfor.getCompleteIntervals (Calls: 7214, Time: 29687.086 s)

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Class method in file C:\Program Files\MATLAB\R2021a\toolbox\parallel\distcomp\+distcomp\remoteparfor.m

[Copy to new window for comparing multiple runs](#)

### Parents (calling functions)

Function Name	Function Type	Calls
<a href="#">parallel_function&gt;distributed_execution</a>	Subfunction	7214

### Lines that take the most time

Line Number	Code	Calls	Total Time (s)	% Time	Time Plot
<a href="#">379</a>	r = q.poll(1, timeUnitSeconds);	42875	29647.781	99.9%	
<a href="#">380</a>	obj.displayOutput();	42875	17.492	0.1%	
<a href="#">410</a>	thisdata = obj.deserialize(data(2));	19832	9.256	0.0%	
<a href="#">387</a>	if ~obj.Session.isSessionRunning	23043	3.904	0.0%	
<a href="#">409</a>	data = r.getResult;	19832	1.966	0.0%	
All other lines			6.686	0.0%	
Totals			29687.086	100%	

### Children (called functions)

Function Name	Function Type	Calls	Total Time (s)	% Time	Time Plot
<a href="#">java.util.concurrent.LinkedBlockingQueue</a>	Java method	42875	29642.170	99.8%	
<a href="#">remoteparfor&gt;remoteparfor.displayOutput</a>	Class method	42875	16.604	0.1%	
<a href="#">remoteparfor&gt;remoteparfor.deserialize</a>	Class method	19832	7.050	0.0%	
<a href="#">JavaBackedSession&gt;JavaBackedSession.isSessionRunning</a>	Class method	23043	3.288	0.0%	
<a href="#">...omp_pmode_parfor.ParforControllerImpl\$IntervalResultImpl</a>	Java method	59496	1.176	0.0%	
<a href="#">remoteparfor&gt;iTimeUnitSeconds</a>	Class method	7214	0.295	0.0%	
Self time (built-ins, overhead, etc.)			16.504	0.1%	
Totals			29687.086	100%	

### Code Analyzer results

No Code Analyzer messages.

### Coverage results

[Show coverage for parent folder](#)

Total lines in function	54
Non-code lines (comments, blank lines)	15
Code lines (lines that can run)	39
Code lines that did run	33
Code lines that did not run	6
Coverage (did run/can run)	84.62 %

### Function listing

Time	Calls	Line	
		368	function [tags, results] = getCompleteIntervals(obj, numIntervals)
0.040	7214	<a href="#">369</a>	q = obj.IntervalCompleteQueue;
0.345	7214	<a href="#">370</a>	timeUnitSeconds = <a href="#">iTimeUnitSeconds()</a> ;
0.048	7214	<a href="#">371</a>	tags = nan(numIntervals, 1);
0.039	7214	<a href="#">372</a>	results = cell(numIntervals, 2);
0.004	7214	<a href="#">373</a>	for i = 1:numIntervals
0.072	19832	<a href="#">374</a>	r = [];
0.005	19832	<a href="#">375</a>	err = [];

```

0.058 42875 377
378
assert(obj.NumIntervalsInController > 0, ...
      'Internal error in PARFOR - no intervals to retrieve.');
29647.781 42875 379
17.492 42875 380
381
% In each poll tick of the polling wait, yield to any
382
% events allowed to interrupt the parallel language.
0.833 42875 383
0.592 42875 384
385
if isempty(r)
386
387
388
389
3.904 23043 387
388
389
if ~obj.Session.isSessionRunning
    errorMessageInput = iGetParpoolLinkForError();
    error(message('parallel:lang:parfor:SessionShutDown', errorMessageInput));
end
else
    obj.NumIntervalsInController = obj.NumIntervalsInController - 1;
    if r.hasError
        % Maybe try again
        [r, err] = obj.handleIntervalErrorResult(r);
        q = obj.IntervalCompleteQueue;
    end
end
0.003 19832 391
0.006 19832 392
1.897 19832 393
394
395
396
0.003 19832 397
0.010 42875 398
0.374 42875 399
400
401
% Check to see if the interval result has an error
0.004 19832 401
if ~isempty(err)
    % Java code has already interrupted the remote execution of the parfor
    % body and halted the receipt of further IO. Before throwing an error,
    % we perform the normal cleanup activities.
    obj.complete(false);
    throw(err);
else
    tags(i) = r.getTag;
    data = r.getResult;
    thisdata = obj.deserialize(data(2));
    assert(numel(thisdata) == 2, ...
           'Unexpectedly received the incorrect number of outputs.');
    results(i,:) = thisdata;
    obj.IncompleteIntervalsCell{tags(i)} = [];
end
0.003 19832 416
0.006 19832 416
417
418
419
0.095 7214 420
0.102 7214 421
end

```

Local functions in this file are not included in this listing.

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