

Parallel TC

Ahmedur Rahman Shovon

HiPC Dataset

Dataset

0	1
0	2
3	4
1	3
2	3

Iteration 1

Input	Reverse	Join	Received	T																						
Rank 1																										
<table><tr><td>0</td><td>1</td></tr><tr><td>0</td><td>2</td></tr><tr><td>3</td><td>4</td></tr></table>	0	1	0	2	3	4	<table><tr><td>3</td><td>1</td></tr><tr><td>3</td><td>2</td></tr></table>	3	1	3	2	<table><tr><td>4</td><td>1</td></tr><tr><td>4</td><td>2</td></tr></table>	4	1	4	2	<table><tr><td>3</td><td>0</td></tr></table>	3	0	<table><tr><td>3</td><td>1</td></tr><tr><td>3</td><td>2</td></tr><tr><td>3</td><td>0</td></tr></table>	3	1	3	2	3	0
0	1																									
0	2																									
3	4																									
3	1																									
3	2																									
4	1																									
4	2																									
3	0																									
3	1																									
3	2																									
3	0																									

Rank 2

1	3
---	---

1	0
4	3

3	0
---	---

4	1
4	2

1	0
4	3
4	1
4	2

Rank 3

2	3	2	0	3	0	2	0
---	---	---	---	---	---	---	---

Iteration 2

Input	Reverse	Join	Received	T																		
Rank 1																						
<table><tr><td>0</td><td>1</td></tr><tr><td>0</td><td>2</td></tr><tr><td>3</td><td>4</td></tr></table>	0	1	0	2	3	4	<table><tr><td>3</td><td>0</td></tr></table>	3	0	<table><tr><td>4</td><td>0</td></tr></table>	4	0		<table><tr><td>3</td><td>1</td></tr><tr><td>3</td><td>2</td></tr><tr><td>3</td><td>0</td></tr></table>	3	1	3	2	3	0		
0	1																					
0	2																					
3	4																					
3	0																					
4	0																					
3	1																					
3	2																					
3	0																					
Rank 2																						
<table><tr><td>1</td><td>3</td></tr></table>	1	3	<table><tr><td>4</td><td>1</td></tr><tr><td>4</td><td>2</td></tr></table>	4	1	4	2		<table><tr><td>4</td><td>0</td></tr></table>	4	0	<table><tr><td>1</td><td>0</td></tr><tr><td>4</td><td>3</td></tr><tr><td>4</td><td>1</td></tr><tr><td>4</td><td>2</td></tr><tr><td>4</td><td>0</td></tr></table>	1	0	4	3	4	1	4	2	4	0
1	3																					
4	1																					
4	2																					
4	0																					
1	0																					
4	3																					
4	1																					
4	2																					
4	0																					
Rank 3																						
<table><tr><td>2</td><td>3</td></tr></table>	2	3				<table><tr><td>2</td><td>0</td></tr></table>	2	0														
2	3																					
2	0																					

Iteration 3

Input	Reverse	Join	Received	T														
Rank 1																		
<table><tr><td>0</td><td>1</td></tr><tr><td>0</td><td>2</td></tr><tr><td>3</td><td>4</td></tr></table>	0	1	0	2	3	4				<table><tr><td>3</td><td>1</td></tr><tr><td>3</td><td>2</td></tr><tr><td>3</td><td>0</td></tr></table>	3	1	3	2	3	0		
0	1																	
0	2																	
3	4																	
3	1																	
3	2																	
3	0																	
Rank 2																		
<table><tr><td>1</td><td>3</td></tr></table>	1	3	<table><tr><td>4</td><td>0</td></tr></table>	4	0			<table><tr><td>1</td><td>0</td></tr><tr><td>4</td><td>3</td></tr><tr><td>4</td><td>1</td></tr><tr><td>4</td><td>2</td></tr><tr><td>4</td><td>0</td></tr></table>	1	0	4	3	4	1	4	2	4	0
1	3																	
4	0																	
1	0																	
4	3																	
4	1																	
4	2																	
4	0																	
Rank 3																		
<table><tr><td>2</td><td>3</td></tr></table>	2	3				<table><tr><td>2</td><td>0</td></tr></table>	2	0										
2	3																	
2	0																	

Reverse T

T

Rank 1

3	1
3	2
3	0

T final

1	3
2	3
0	3

Rank 2

1	0
4	3
4	1
4	2
4	0

0	1
3	4
1	4
2	4
0	4

Rank 3

2	0
---	---

0	2
---	---