

CLASS DISCUSSIONS- DESIGN OF A TASK PARALLEL LIBRARY

Main Contributions

Implementing Wait()

What New Operation Do We Need?

Idempotence

THE Protocol

<i>Worker/Victim</i>	<i>Thief</i>
1 push() {	1 steal() {
2 T++;	2 lock(L);
3 }	3 H++;
	4 if (H > T) {
4 pop() {	5 H--;
5 T--;	6 unlock(L);
6 if (H > T) {	7 return FAILURE;
7 T++;	8 }
8 lock(L);	9 unlock(L);
9 T--;	10 return SUCCESS;
10 if (H > T) {	11 }
11 T++;	
12 unlock(L);	
13 return FAILURE;	
14 }	
15 unlock(L);	
16 }	
17 return SUCCESS;	
18 }	

Futures

Replicable Tasks