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Scheduler	Task A	Task B	Task C
0ms →			
1ms →			
2ms →			
3ms →			
4ms →			
5ms →			
6ms →			

Diagram illustrating a preemptive scheduler's execution timeline across 6 time units (0ms to 6ms). Task A runs from 0ms to 1ms. Task B runs from 1ms to 2ms. Task C runs from 2ms to 6ms. Task A resumes at 3ms. Task B resumes at 4ms. Task C resumes at 5ms. Task A waits at 6ms. The diagram shows task execution and waiting periods.

Annotations:

- Vertical arrows on the left indicate time progression from 0ms to 6ms.
- Brackets on the right indicate waiting periods for Task C: { wait } at 1ms, { wait } at 3ms, and { wait } at 5ms.