

Scheduling and Analysis of Limited-Preemptive Movable Gang Tasks

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What is gang?

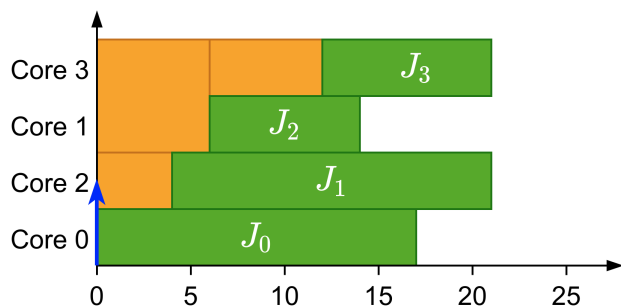
- Parallel threads executed together as a “gang”
- Execution does not start until there are enough free cores

Explain how a gang task is different than the tasks scheduled together.

1. We have these jobs
2. If we release them together with 3 cores we have this group
3. Then we have a single job J_0

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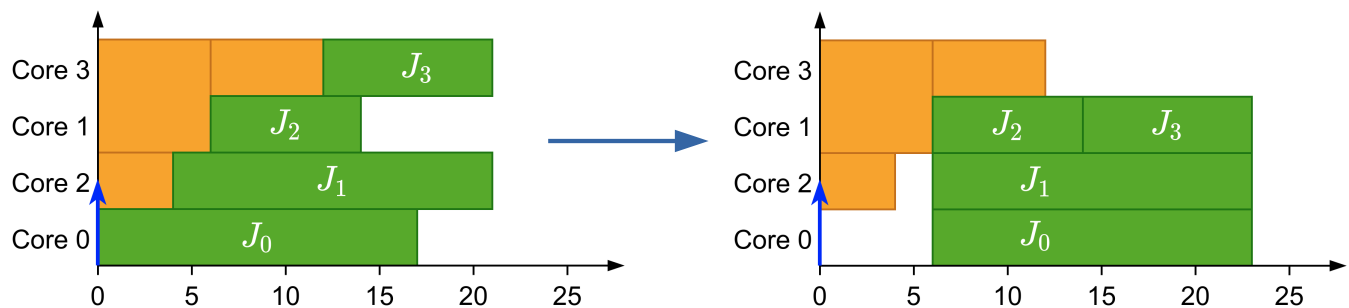


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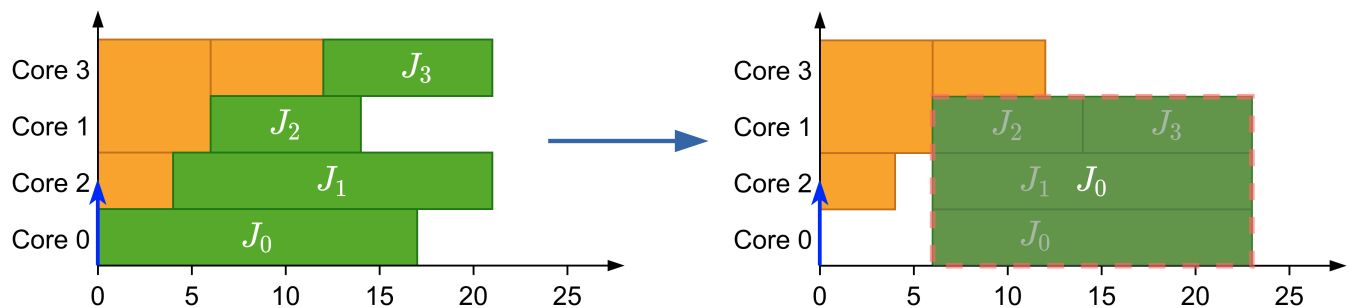


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Types of gang

Previous work

Rigid gang solutions

Moldable gang solutions

Malleable gang solutions

Schedulability analysis

Our work

LPMRGS