Relationships between Scheduling Techniques in Parallel Computing and Feedback loops in Autonomic Computing

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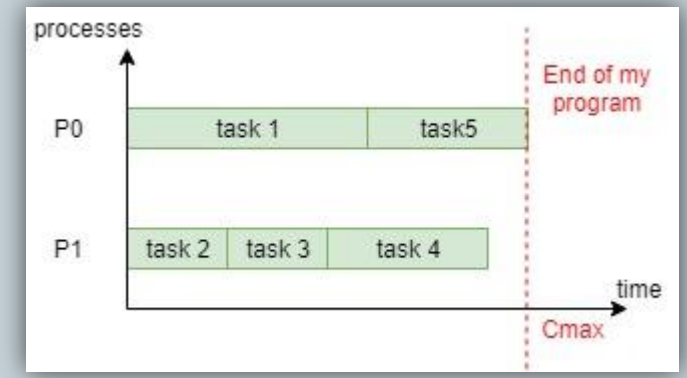
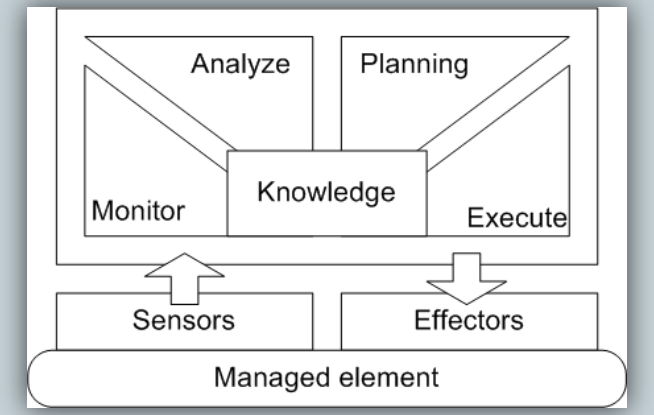
How to combine these two ?

Scheduling



- Many techniques to schedule.
- Depending on number of processes, tasks constrains, and objective function.

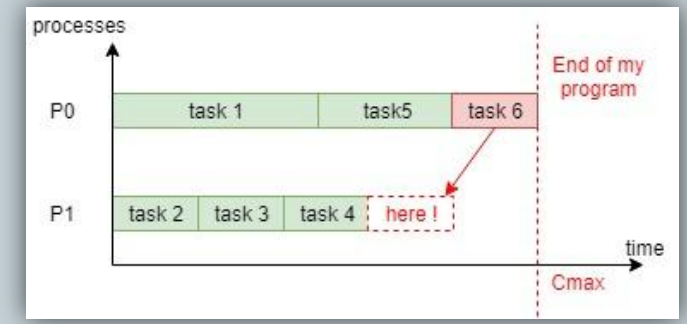
Feedback loops



- Monitor the system via sensors
- Adjust unwanted behavior via effectors.

How to combine these two ?

Scheduling



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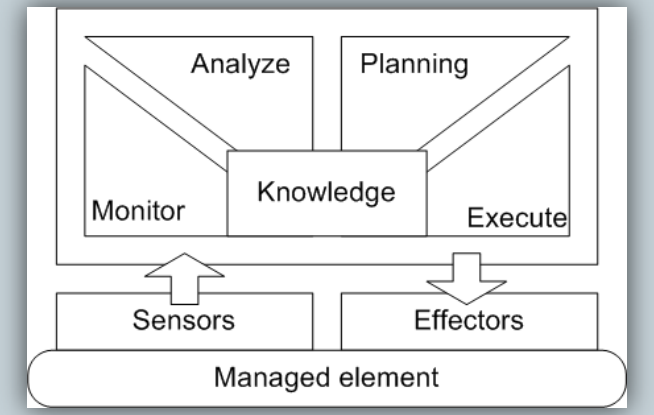
Feedback loops



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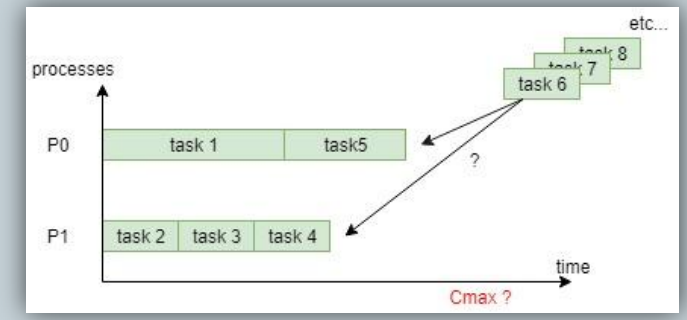
Detect : Cmax too high.
Decide : Move task 6 to P1

How to combine these two ?

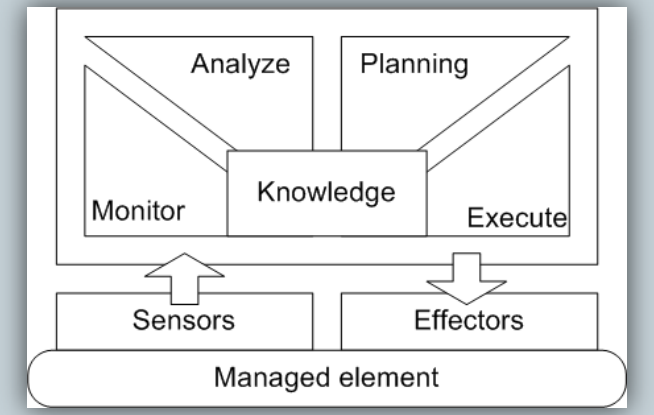
Scheduling



- Many techniques to schedule.
- Depending on number of processes, tasks constrains, and objective function.

What happens if number of tasks is not finite ? If we don't know their duration ?

Feedback loops



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What monitors ? How adjusts the scheduling ?