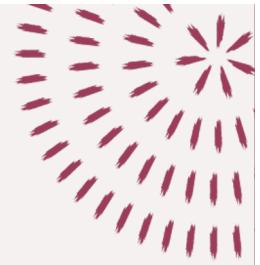
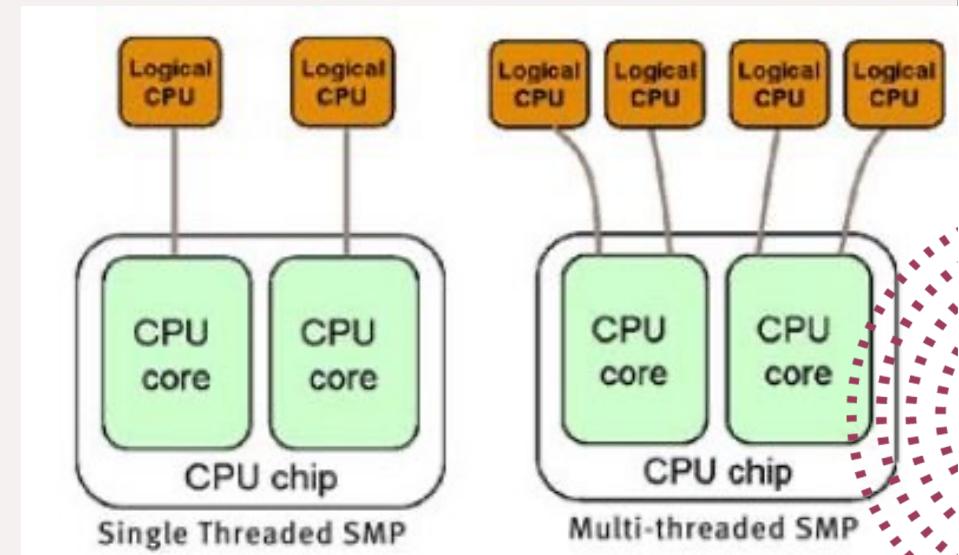
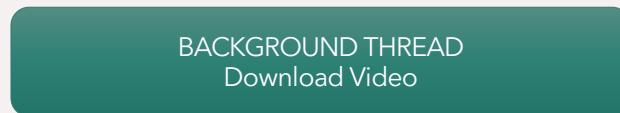
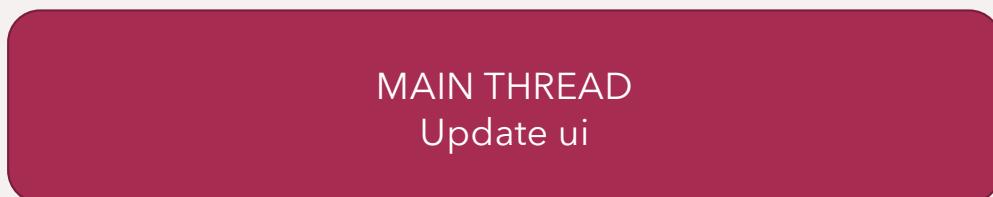


# **Grand Central Dispatch**



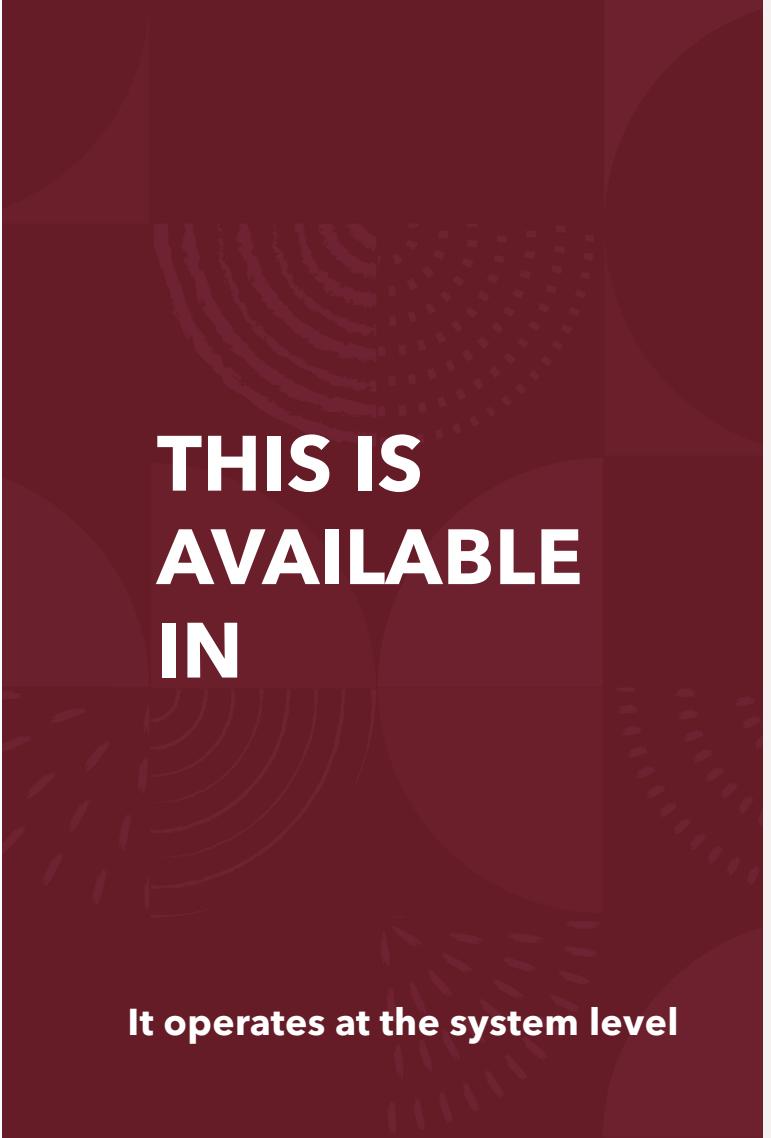
# CPU can do multi process



**How can we optimize our application to take advantage of the multicore hardware it runs?**

**GRAND CENTRAL DISPATCH!**





**THIS IS  
AVAILABLE  
IN**

**It operates at the system level**

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iOS

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tvOS

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macOS

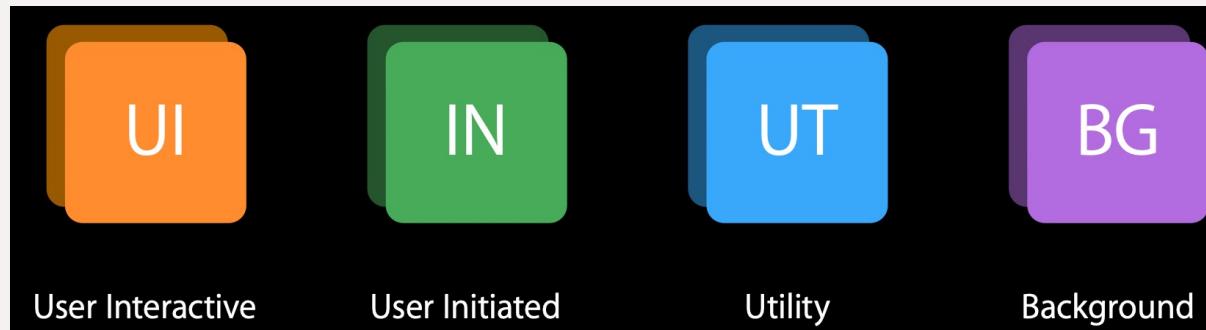
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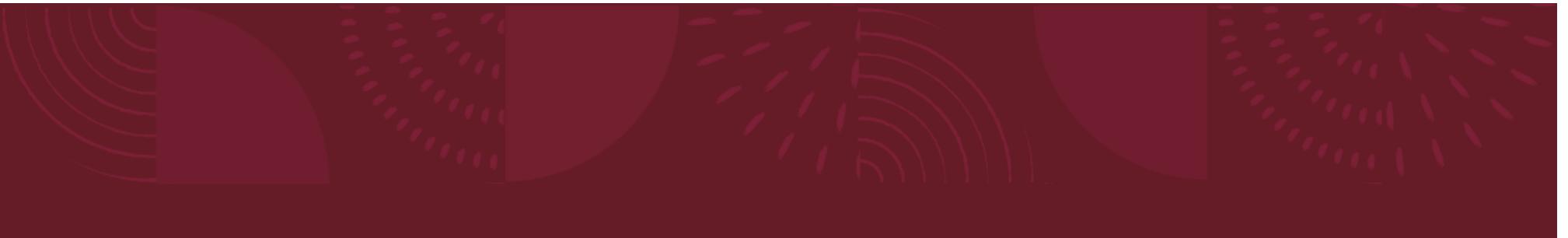
watchOS



## Grand Central Dispatch

- The application interacts with GCD using the Dispatch Queues
- A dispatch queue is a queue onto which work can be scheduled for execution.
- This queue has an order for execution First In, First Out.
- We can submit a block/closure to the queue for execution.
- **GCD brings us a Quality of Service**





	User Interactive	Main thread, animations	Is this work actively involved in updating the UI?
	User Initiated	Immediate results	Is this work required to continue user interaction?
	Utility	Long-running tasks	Is the user aware of the progress of this work?
	Background	Not user visible	Is the user unaware of this work?

# Serial Dispatch Queue

