

**Worker Thread on
CPU Core #1**

Acquire USB Mutex

Receive distance values

Free USB Mutex and
acquire Memory Mutex

Object recognition

Free Memory Mutex

Acquire USB Mutex

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**Worker Thread on
CPU Core #2**

Idle

Acquire USB Mutex

Receive USB Mutex

Receive distance values

Free USB Mutex and
acquire Memory Mutex

Object recognition

Free Memory Mutex

sync

sync

sync