SOFT TIMERS

concept - 1 to duray the execution of of fn.

1 to execute a function periodically

3 Hardware timers: unique to the architecture

(Us refluence times: based on the running coole/ Rtou fick times

beloging execution of a function using Free RTOS:

- vTasubelay (): black currently running task for a set amount of filme (in ticks)
- x TasuGotTick Count (): non-blocking delay w/ length timestamp
- I configured to count up or down & trigger an ISR when they expire.
- software timers sexist in add

-> not hardware dependent

Geolephion: etos ticle timer whally review on a hardware timer

Free RTW -) in clucks suffware timers that an away

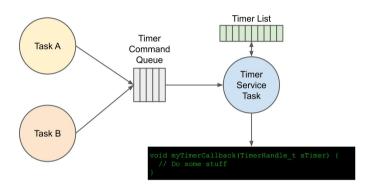
Calling of a function or call function periodically

there's an API that woneses the times

-> automatically mus a timer service task and.
"times against " separately from all other tasks

I this tash manages all times in set & call the various call back function -> the API function calls can communicate we service task through a gueur to ensure all commances are received.

Software Timers in FreeRTOS



Owner times expired wherever the times expired wherever

Showever the timer resolution cannot be less than I tick as it is superclint on the tick timer

Down also set the suffered times to be "one-shot"

executes callback function one after the times expires

or "auto-reland"

every time after timer expires