

RTOS: Sample use case

› **Description:**

- This example demonstrates RTOS use case with semaphores to trigger tasks using FreeRTOS.
- LEDs will blink in sequence based on the way semaphores are activated.
- Three tasks are configured and used with.

› **Target Device:**

- Traveo-II CYT2Bx devices

› **Board/s:**

- CYTVII-B-E-1M-176-CPU Rev. C Board/CYTVII-B-E-1M-100-CPU Board
- CYTVII-B-E-BB Rev.A Board

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› **Dependency:**

- CM4 example to be copied to the main “src”

› **Expectation:**

- After running the example, user should be able to see the LEDs blinking in sequence on the base board connected.

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› **Things to take care in IAR:**

- Select “rtos” configuration
- Build/compile cm4_mc workspace
- Open cm0plus_cm4 workspace with latest configuration, go to options,
 - Debugger->Multicore->Change session configuration XML to rtos.xml (\$WS_DIR\$\cm0plus_cm4_setup_rev_x.xml to \$WS_DIR\$\cm0plus_cm4_setup_rev_x_rtos.xml)
 - Debugger->Images->Path, change “cm4_mc\rev_x” to “cm4_mc\rtos”
- Build cm0plus_cm4 workspace, debug and run

› GHS: RTOS is included for the application core, no other configuration is needed.

› Note: ‘x’ stands for the latest revision of the device supported in SDL.