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For the downloaded files that are specified below, copy and paste them, to replace the old files at:

C:\projects\packtBookRTOS\Middleware\Third\_Party\SEGGER

- From SystemView\_Src\_V330\SEGGER\
  - SEGGER\_SYSVIEW\_Int.h
  - SEGGER\_SYSVIEW\_ConfDefaults.h
  - SEGGER\_SYSVIEW.h
  - SEGGER\_SYSVIEW.c
  - SEGGER\_RTT\_printf.c
  - SEGGER\_RTT\_ASM\_ARMv7M.S
  - SEGGER\_RTT.h
  - SEGGER\_RTT.c
  - SEGGER.h
- From SystemView\_Src\_V330\SEGGER\Syscalls\
  - SEGGER\_RTT\_Syscalls\_SES.c
  - SEGGER\_RTT\_Syscalls\_KEIL.c
  - SEGGER\_RTT\_Syscalls\_IAR.c
  - SEGGER\_RTT\_Syscalls\_GCC.c
- From: SystemView\_Src\_V330\Sample\FreeRTOSV10\
  - SEGGER\_SYSVIEW\_FreeRTOS.h
  - SEGGER\_SYSVIEW\_FreeRTOS.c
- From: SystemView\_Src\_V330\Sample\FreeRTOSV10\Config\Cortex-M\
  - SEGGER\_SYSVIEW\_Config\_FreeRTOS.c
- From: SystemView\_Src\_V330\Config\
  - SEGGER\_RTT\_Conf.h
  - Global.h

### 3.2 Upgrading instances of SEGGER\_SYSVIEW\_Conf.h

For the book's system, each chapter-folder has a SystemView config-file, SEGGER\_SYSVIEW\_Conf.h. It is in the Inc sub-folder, e.g., for Chapter 10:

C:\projects\packtBookRTOS\Chapter\_10\Inc\SEGGER\_SYSVIEW\_Conf.h

It appears that those config-files were copied from the SEGGER\_SYSVIEW\_Conf.h file in the Target-Sources version 2.52h. And, the following macro definition was added to each config-file. However, the macro's value differs among the config-files.

```
#define SEGGER_SYSVIEW_RTT_BUFFER_SIZE 10240
```

To upgrade the config-files:

For each config-file in the chapter-folders, use a diff to identify changes relative to the file provided in the Target Sources version 2.52h. This requires downloading Target-Sources version 2.52h.

For each chapter-folder, replace the existing config-file with the upgraded config-file from

- SystemView\_Src\_V330\Config\SEGGER\_SYSVIEW\_Conf.h

And, in each upgraded config-file, add any changes found via the diff, including the macro shown above.

## 4 SystemView troubleshooting: problems, and a bug

This section describes two problems encountered in using SystemView, and a SystemView bug. Also included is the console output from a successful start-up of the SystemView Recorder. In diagnosing SystemView start-up problems, that console output can be useful for comparison.

### 4.1 SystemView problem: Start-Recording hangs and does not start

- Problem
  - After clicking on "Start Recording", SystemView hangs and does not start
  - Messages include:
    - "Recorder starting..." hangs at 99%

