Bookworm vs Bullseye

Bookworm vs Bullseye

- RPi5
- cat /etc/os-release
- PRETTY_NAME="Debian GNU/Linux 12 (bookworm)"
- NAME="Debian GNU/Linux"
- VERSION ID="12"
- VERSION="12 (bookworm)"
- VERSION CODENAME=bookworm
- ID=debian
- HOME_URL="https://www.debian.org/"
- SUPPORT_URL="https://www.debian.org/support"
- BUG_REPORT_URL="https://bugs.debian.org/"

- RPi4
- cat /etc/os-release
- PRETTY_NAME="Debian GNU/Linux 11 (bullseye)"
- NAME="Debian GNU/Linux"
- VERSION ID="11"
- VERSION="11 (bullseye)"
- VERSION CODENAME=bullseye
- ID=debian
- HOME URL="https://www.debian.org/"
- SUPPORT URL="https://www.debian.org/support"
- BUG_REPORT_URL="https://bugs.debian.org/"

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Bookworm vs Bullseye

- ii binutils-arm-none-eabi 2.35.2-2+14+b2 arm64 GNU assembler, linker and binary utilities for ARM Cortex-R/M processors
- ii gcc-arm-none-eabi 15:8-2019q3-1+b1 arm64 GCC cross compiler for ARM Cortex-R/M processors
- ii libnewlib-arm-none-eabi 3.3.0-1 all C library and math library compiled for bare metal using Cortex A/R/M
- ii libstdc++-arm-none-eabi-newlib 15:8-2019-q3-1+13 all GNU Standard C++ Library v3 for ARM Cortex-R/M processors (newlib)

- ii binutils-arm-none-eabi 2.40-2+18+b1 arm64 GNU assembler, linker and binary utilities for ARM Cortex-R/M processors
- ii gcc-arm-none-eabi 15:12.2.rel1-1 arm64 GCC cross compiler for ARM Cortex-R/M processors
- ii libnewlib-arm-none-eabi 3.3.0-1.3
 all C library and math library compiled for bare metal using Cortex A/R/M
- ii libstdc++-arm-none-eabi-dev 15:12.2.rel1-1+23 all GNU Standard C++ Library v3 for ARM Cortex-R/M processors (headers)
- ii libstdc++-arm-none-eabi-newlib 15:12.2.rel1-1+23 all GNU Standard C++ Library v3 for ARM Cortex-R/M processors (newlib)

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picow_freertos_iperf.c

Bullseye

head_tail.c

head_tail.h

Circular buffer functions

char tmp[80]; char * ptrhead; char * ptrtail; char * ptrendofbuf; char * ptrtopofbuf;

Uses Networking functions

Uses Circular buffer functions tcp_debug.h

char client_message[BUF_SIZE];

tcp_debug.c

Networking functions

picow_freertos_iperf.c

char tmp[80]; char * ptrhead; char * ptrtail; char * ptrendofbuf; char * ptrtopofbuf;

char client message[BUF SIZE]

Uses Networking functions

Uses Circular buffer functions

Bookworm

head_tail.h

head tail.c

Circular buffer functions

tcp_debug.h

extern char client_message[BUF_SIZE];

tcp_debug.c

Networking functions

00 -1,22 +1,17 00	
1 #ifndef HEAD_TAIL_H	1 #ifndef HEAD_TAIL_H
2 #define HEAD_TAIL_H	2 #define HEAD_TAIL_H
3 - #include <stdio.h></stdio.h>	3 +
4 - #include "pico/stdlib.h"	4 + /*
5 - #include "pico/cyw43_arch.h"	
6 -	
7 - #include "lwip/pbuf.h"	
8 - #include "lwip/tcp.h"	
9 - char tmp[80]; 10 char * head;	5 char * head;
11 char * tail;	6 char * tail;
12 char * endofbuf;	7 char * endofbuf;
13 char * topofbuf;	8 char * topofbuf;
20 State Copyright	9 + */
14	18
	<pre>11 + char * bump_head(char * ptrhead, char * ptrendofbuf, char * ptrtopofbuf);</pre>
	<pre>12 + char * bump_tail(char * ptrtail,char * ptrendofbuf,char * ptrtopofbuf);</pre>
	<pre>13 + char * dec_head(char * ptrhead,char * ptrendofbuf,char * ptrtopofbuf);</pre>
	<pre>14 + char * dec_tail(char * ptrtail,char * ptrendofbuf,char * ptrtopofbuf);</pre>
	15 + char * head_tail_helper(char * ptrhead, char * ptrtail,char * ptrendofbuf,char * ptrtopofbuf, char * inpstr);
15	16
<pre>- char * bump_head(char * head, char * endofbuf,char * topofbuf);</pre>	17 + #endif
<pre>- char * bump_tail(char * tail,char * endofbuf,char * topofbuf);</pre>	
18 - char * dec_head(char * head,char * endofbuf,char * topofbuf);	
19 - char * dec_tail(char * tail,char * endofbuf,char * topofbuf);	
<pre>20 - char * head_tail_helper(char * head, char * tail,char * endofbuf,char * topofbuf, char * inpstr);</pre> 21 -	
22 - #endif	
Θ	

pico_w-mqtt / pico_w / wifi / freertos / iperf / tcp_debug.h 🕒

develone 0x20001584 0x20001554 0x20001753 0x20001554



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Code
        Blame 38 lines (33 loc) · 1.08 KB
                                                8 Code 55% faster with GitHub Copilot
         #ifndef TCP_DEBUG_H
         #define TCP_DEBUG_H
         #include "pico/stdlib.h"
         #include "pico/cyw43_arch.h"
         #include "lwip/pbuf.h"
         #include "lwip/tcp.h"
         #define TCP_PORT 4001
   9
  10
         #define DEBUG_printf printf
  11
         #define BUF_SIZE 512
         #define TEST_ITERATIONS 1
  12
  13
         #define POLL_TIME_S 5
  14
         extern char client_message[BUF_SIZE];
  15
      typedef struct TCP_SERVER_T_ {
  17
             struct tcp_pcb "server_pcb;
  18
             struct tcp_pcb "client_pcb;
  19
             bool complete;
  29
             uint8_t buffer_sent[BUF_SIZE];
  21
             uint8_t buffer_recv[BUF_SIZE];
             int sent_len;
  22
  23
             int recv_len;
  24
             int run_count;
  25
         } TCP_SERVER_T;
  26
  27
         TCP_SERVER_T* tcp_server_init(void);
  28
         err_t tcp_server_close(void *arg);
  29
         err_t tcp_server_result(void *arg, int status);
  38
         err_t tcp_server_sent(void *arg, struct tcp_pcb *tpcb, u16_t len);
  31
         err_t tcp_server_send_data(void *arg, struct tcp_pcb *tpcb);
  32
         err_t tcp_server_recv(void *arg, struct tcp_pcb *tpcb, struct pbuf *p, err_t err);
  33
         err_t tcp_server_poll(void *arg, struct tcp_pcb *tpcb);
  34
         void tcp_server_err(void *arg, err_t err);
  35
         err_t tcp_server_accept(void *arg, struct tcp_pcb *client_pcb, err_t err);
  36
         bool tcp_server_open(void *arg);
  37
  38
         #end1f
```

