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uint32_t mailbox_message[22] __attribute__((aligned(16)));
uint32_t index;

void set_init_display_message()
{
    index = 1;
    mailbox_message[index++] = 0; //request code

    mailbox_message[index++] = (uint32_t) SET_PHYSICAL_WIDTH_HEIGHT; //tag
    mailbox_message[index++] = 8; //request size
    mailbox_message[index++] = 8; //response size
    mailbox_message[index++] = physical_width; //horizontal resolution of the
        monitor
    mailbox_message[index++] = physical_height; //vertical resolution of the
        monitor

    mailbox_message[index++] = (uint32_t) SET_VIRTUAL_WIDTH_HEIGHT; //tag
    mailbox_message[index++] = 8; //request size
    mailbox_message[index++] = 8; //response size
    mailbox_message[index++] = virtual_width; //horizontal resolution of
        virtual screen
    mailbox_message[index++] = virtual_height; //vertical resolution of
        virtual screen

    mailbox_message[index++] = (uint32_t) SET_DEPTH; //tag
    mailbox_message[index++] = 4; //request size
    mailbox_message[index++] = 4; //response size
    mailbox_message[index++] = color_depth; //color depth of the frame buffer

    mailbox_message[index++] = (uint32_t) ALLOCATE; //tag
    mailbox_message[index++] = 8; //request size
    mailbox_message[index++] = 8; //response size
    mailbox_message[index++] = 16; //alignment fb ptr returned here
    mailbox_message[index++] = 0; //fb size returned here

    mailbox_message[index++] = END; //end tag

    mailbox_message[0] = index*sizeof(uint32_t); //size of message
}

```