

Re: Serial driver

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2006-12/msg01207.html>

- *From:* "Chitra" <chitrar25@xxxxxxxxxxxx>
 - *Date:* 26 Dec 2006 21:57:59 -0800
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Hi Steve,

Thanks for your reply. I got BSP for I.MX21 from Freescale website and I am using this code as reference for UART. I am setting my baud rate to 38400, 8 bits as my word size & UART1 for debugging. Here is my code for printing the string.

```
void OEMWriteDebugString(unsigned short* str)
{
    while((c = *str & 0xFF) != '\0')
    {
        while (!(port->USR2 & UART_USR2_TXFE_MASK));
        port->UTXD = (*str & 0xFF);
        if ((c = (*str >> 8) & 0xFF) != '\0') {
            port->UTXD = ((*str >> 8) & 0xFF);
        }
        str++;
    }
}
```

My first debug string is as follows:

```
OEMWriteDebugString((unsigned short *)"Bootloader main INIT\r\n");
OEMWriteDebugString((unsigned short *)"Bootloader main INIT_2\r\n");
```

After writing bootloader to flash and once I restart the board on hyperterminal it just displays the first string
Bootloader main INIT

During

& the rest of the messages are not being displayed. But when I do step by step debugging using MultiIce it displays the 2nd string also only if I give some time between the above two statements. I am not able to locate the problem.

Only OEMWriteDebugString() works whereas EdbgOutputDebugString() does not display any message. Please reply

Steve Maillet (eMVP) wrote:

Re: Serial driver

I am developing BSP for MC9328MXL Litekit.
I have a problem in my serial driver. The debug messages are not being displayed properly. I have followed i.mx21 code but still It is not working properly. Whenever I reset, I just get only first debug message, the rest are not displayed, but when I do single stepping using MultiIce, It works but not perfectly. As anybody faced such a problem.

Hard to say based on what you've posted so far. There are a lot of little subtleties about the i.MXL serial UARTs and some differences from the i.MX21. If you posted more details it might help, you also might want to consider using EmbeddedFusion to help with your design. We have a small CPU module that includes the i.MXL, FLASH, RAM and an OS image ready to run. Contact me directly for more information.

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