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Digital Signal Processing Systems
Determining Ready Status
The RRDY and XRDY bits in SPCR indicate the ready state of the McBSP receiver and transmitter, respectively.
Writes and Reads from the serial port can be synchronized by any of the following methods:
1. Polling RRDY and XRDY bits.
2. Using the events sent to the DMA or EDMA controller (REVT & XEVT).
3. Using the interrupts to the CPU (RINT and XINT) that the events generate.
Reading DRR and writing to DXR affects RRDY and XRDY, respectively.
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1.00	(R/X)WDLEN1/2	Element Length (Bits)	and the second
	000	8	-
	001	12	1000000000
	010	16	
	011	20	
- The second	100	24	
	101	32	Contract P
1.1	110	Reserved	
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Digital Signal Processing Systems
#include <c6416dsk.h></c6416dsk.h>
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<pre>void mcbsp_init()</pre>
<pre>(/* Reset the McBSP */ </pre>
*(unsigned volatile int *)McBSP_SPCR = 0;
<pre>/* Setting Pin Control Register; Default */ *(unsigned volatile int *)McBSP PCR = 0:</pre>
/* Setting RCR, 16 bit receive, No Companding, 1 bit delay */
*(unsigned volatile int *)McBSP_RCR = 0x10040;
/* Setting TXR, 16 bit transmit, No Companding, 1 bit delay */
<pre>*(unsigned volatile int *)McBSP_XCR = 0x10040;</pre>
/* Clear Data Transmission Persister */
*(unsigned volatile int *)McBSP DXR = 0;
/* Now Enabling the port operation through SPCR */
*(unsigned volatile int *)McBSP_SPCR = 0x12001;
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