

LFSR

< Previous instruction: [IORWF](#) | Instruction [index](#) | Next instruction: [MOVE](#) >

LFSR	Load FSR								
Syntax:	[<i>label</i>] LFSR f,k								
Operands:	$0 \leq f \leq 2$ $0 \leq k \leq 4095$								
Operation:	$k \rightarrow \text{FSRf}$								
Status Affected:	None								
Encoding:	<table><tr><td>1110</td><td>1110</td><td>00ff</td><td>$k_{11}kkk$</td></tr><tr><td>1111</td><td>0000</td><td>k_7kkk</td><td>kkkk</td></tr></table>	1110	1110	00ff	$k_{11}kkk$	1111	0000	k_7kkk	kkkk
1110	1110	00ff	$k_{11}kkk$						
1111	0000	k_7kkk	kkkk						
Description:	The 12-bit literal 'k' is loaded into the file select register pointed to by 'f'.								
Words:	2								
Cycles:	2								

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	Read literal 'k' MSB	Process Data	Write literal 'k' MSB to FSRfH
Decode	Read literal 'k' LSB	Process Data	Write literal 'k' to FSRfL

Example: LFSR 2, 0x3AB

After Instruction

FSR2H	=	0x03
FSR2L	=	0xAB

< Previous instruction: [IORWF](#) | Instruction [index](#) | Next instruction: [MOVE](#) >