

The Subtract instruction performs 2's complement binary subtraction. Operand 1 is a register containing a fullword integer. Operand 2 specifies a fullword in memory. The fullword in memory is subtracted from the fullword in the register and the result remains in the register. The fullword in memory is not changed. Consider the following example,



The contents of the fullword "AFIELD", x'0000001F' = 31, are subtracted from register 9 which contains x'00000031' = 49. The difference is 18 = x'00000012' destroying the previous value in R9. The fullword in memory is unchanged by this operation.

Since **S** is an RX instruction, an index register may be coded as part of operand 2 (see Explicit Addressing.

Examples

Some Unrelated Adds

R4 =	X'FFI	FFFFD5′	<u> </u>	43	IN	2′	S	COM	IPL	ΕM	IENT
R5 =	X'000	0000281	+4	40	IN	2′	S	COM	IPL	ΕM	IENT
R6 =	X'000	000004′	-	+4	IN	2′	S	COM	IPL	ΕM	IENT
DOG	DC	F ′ 35′									
CAT	DC	F'4'									
S	R4, =F	' 20 '	R4	=	X' 1	FFF	FF	FC1	'	=	-63
S	R5, =F	′ -20 ′	R5	=	X'	000	00	03C	'	=	+60
S	R6, =F	' 20 '	R6	=	X' 1	FFF	FF	FFO	'	=	-16
S	R6, =F	′-5′	R6	=	X'	000	00	009	,	=	+9
S	R6,CA	Г	R6	=	Χ′	000	00	000	'	=	0

S R5,DOG R5 = X'00000005' = +5 S R6,DOG(R6) R6 = X'00000000' INDEXING IS ALLOWED