

Opcode	Meaning	Bytes	Fmt	LA = CVPX	Details	Example
A S,D	Add	A000	1	*****-		A @>100,R2
AB S,D	Add Bytes	B000	1	*****-		
C	Compare	8000	1	***----		
CB	Compare Bytes	9000	1	***--*-		CB R1,R2
S	Subtract	6000	1	*****-		
SB	Subtract Bytes	7000	1	*****-		
SOC	Set ones Corresponding (OR)	E000	1	***----		
SOCB	Set ones Corresponding Bytes (OR)	F000	1	***--*-		
SZC	Set Zeros Corresponding (Reverse AND)	4000	1	***----		
SZCB	Set Zeros Corresponding Bytes (Reverse AND)	5000	1	***--*-		
MOV S,D	Move	C000	1	***----		
MOVB S,D	Move Bytes	D000	1	***--*-		
COC S,D	Compare Ones Corresponding	2000	3	--*-----	ones in S also in D?	COC R10,R11
CZC	Compare Zeros Corresponding	2400	3	--*-----		
XOR	Flip Bits	2800	3	***----		
MPY Ss,D	Multiply s*d – result in d,d+1	3800	9	-----		MPY R2,R3
DIV Ss,D	Divide d,d+1 by s, result in d,d+1	3C00	9	-----*		DIV @>FEO0,R5
XOP A,n	Extend Operation	2800	9	2 2 2 2 2 2 2	Load new settings from address at vector A	XOP @>FF00,4
B R	Branch to register R / @addr	0440	6	-----	R->PC	B *R2
BL A	Branch and Link address A	0680	6	-----	PC->WR11, SA->PC	
BLWP	Branch and Load Workspace Pointer	0400	6	-----	(A)->WP (A+2)->PC ST->R15, PC->R14, WP->R13 (addr is a pair of pointers)	
CLR	Clear Operand	04C0	6	-----		
SETO	Set To Ones	0700	6	-----		
INV	Invert	0540	6	***----		
NEG	Negative	0500	6	*****-		
ABS	Absolute Value	0740	6	*****-		
SWPB	Swap Bytes	06C0	6	-----		
INC	Increment	0580	6	*****-		
INCT	Increment by 2	05C0	6	*****-		
DEC	Decrement	0600	6	*****-		
DECT	Decrement by 2	0640	6	*****-		
X	Execute	0480	6	2 2 2 2 2 2 2		
LDCR S,B	Load Communication Register...	3000	4	***--1-	B bits from S	
STCR	Store Communication Register	3400	4	***--1-		
SBO	Set CRU Bit to 1	1D00	x	-----		SBO 4
SBZ	Set CRU Bit to 0	1E00	x	-----		
TB	Test CRU Bit	1F00	x	--*-----		
JEQ n	Jump Equal	1300	2	-----	Jump to offset n	JEQ \$+4
JGT	Jump Greater Than (Signed)	1500	2	-----		
JH	Jump High	1B00	2	-----		
JHE	Jump Higher or Equal	1400	2	-----		
JL	Jump Lower	1A00	2	-----		
JLE	Jump Lower or Equal	1200	2	-----		
JLT	Jump Less Than (Signed)	1100	2	-----		
JMP	Jump	1000	2	-----		JMP \$
JNC	Jump No Carry	1800	2	-----		
JNE	Jump Not Equals	1600	2	-----		
JNO	Jump No Overflow	1900	2	-----		
JOC	Jump On Carry	1800	2	-----		
JOP	Jump Odd Parity	1C00	2	-----		
SLA D,B	Shift Left Arithmetic	0A00	5	*****-	Shift D by B bits (0=use R0)	SLA R1,0
SRA D,B	Shift Right Arithmetic	0800	5	*****-	Shift D by B bits (0=use R0)	SRA R1,2
SRC D,B	Shift Right Circular	0B00	5	*****-	Circular shift D by B bits (0=use R0)	SRC R5,4
SRL D,B	Shift Right Logical	0900	5	*****-		
AI D,nn	Add Immediate	0220	8	*****-	Add n to reg D	
ANDI D,nn	And Immediate	0240	8	***----		AI R2,>FF
CI D,nn	Compare Immediate	0280	8	***----	Compare D to n	CI R2,>10E
LI D,nn	Load Immediate	0200	8	***----		
ORI	Or Immediate	0260	8	***----		
LWPI A	Load Workspace Pointer Immediate	02E0	x	-----	A->WP	LWPI >FCOO
LIMI	Load Interrupt Mask	0300	x	-----		
STST	Store Status Register	02C0	x	-----		
STWP	Store Workspace Pointer	02A0	x	-----		STWP R2
RTWP	Return from Context Switch	0380	x	*****	R13->WP, R14->PC, R15->ST	
IDLE	Idle	0340	7	-----		
RSET	Reset	0360	7	-----		
CKOF	User Defined	03C0	7	-----		
CKON	User Defined	03A0	7	-----		
LREX	User Defined	03E0	7	-----		
B *R11	RETURN					