

			MMI	MMO	SI	SO		II	IO	CE	CO	OUT	CLO	HLT	RE		ADD	SUB	MUL	DIV	AI	AO	BI	BO		MI	MO	WR	J	JEQ	JNQ	JLS	JGR
Fetch	xxxx xxxx	900000	0	0				1	0	0	1	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
HLT	0000 0000	220000	0	0				0	0	1	0	0	0	1	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
LDA	0000 0001	600080	0	0				0	1	1	0	0	0	0	0		0	0	0	0	0	0	0	0		1	0	0	0	0	0	0	0
	0000 0001	000840	0	0				0	0	0	0	0	0	0	0		0	0	0	0	1	0	0	0		0	1	0	0	0	0	0	0
	0000 0001	010000	0	0				0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
STA	0000 0010	6004a0	0	0				0	1	1	0	0	0	0	0		0	0	0	0	0	1	0	0		1	0	1	0	0	0	0	0
	0000 0010	010000	0	0				0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
LDB	0000 0011	600080						0	1	1	0	0	0	0	0		0	0	0	0	0	0	0	0		1	0	0	0	0	0	0	0
	0000 0011	000240						0	0	0	0	0	0	0	0		0	0	0	0	0	0	1	0		0	1	0	0	0	0	0	0
	0000 0011	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
STB	0000 0100	6001a0						0	1	1	0	0	0	0	0		0	0	0	0	0	0	0	1		1	0	1	0	0	0	0	0
	0000 0100	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
WRA	0000 0101	600800						0	1	1	0	0	0	0	0		0	0	0	0	1	0	0	0		0	0	0	0	0	0	0	0
	0000 0101	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
WRB	0000 0110	600200						0	1	1	0	0	0	0	0		0	0	0	0	0	0	1	0		0	0	0	0	0	0	0	0
	0000 0110	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ADD	0000 0111	208d00						0	0	1	0	0	0	0	0		1	0	0	0	1	1	0	1		0	0	0	0	0	0	0	0
	0000 0111	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
SUB	0000 1000	204d00						0	0	1	0	0	0	0	0		0	1	0	0	1	1	0	1		0	0	0	0	0	0	0	0
	0000 1000	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
MUL	0000 1001	202d00						0	0	1	0	0	0	0	0		0	0	1	0	1	1	0	1		0	0	0	0	0	0	0	0
	0000 1001	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
DIV	0000 1010	201d00						0	0	1	0	0	0	0	0		0	0	0	1	1	1	0	1		0	0	0	0	0	0	0	0
	0000 1010	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
JM	0000 1011																																
JMP	0000 1100	400010						0	1	0	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	1	0	0	0	0
	0000 1100	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
JEQ	0000 1101	200000						0	0	1	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
	0000 1101	400508						0	1	0	0	0	0	0	0		0	0	0	0	0	1	0	1		0	0	0	0	1	0	0	0
	0000 1101	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
JNQ	0000 1110	200000						0	0	1	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
	0000 1110	400504						0	1	0	0	0	0	0	0		0	0	0	0	0	1	0	1		0	0	0	0	0	1	0	0
	0000 1110	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

			MMI	MMO	SI	SO		II	IO	CE	CO	OUT	CLO	HLT	RE		ADD	SUB	MUL	DIV	AI	AO	BI	BO		MI	MO	WR	J	JEQ	JNQ	JLS	JGR
JLS	0000 1111	200000						0	0	1	0	0	0	0	0		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	0000 1111	400502						0	1	0	0	0	0	0	0		0	0	0	0	0	1	0	1		0	0	0	0	0	0	1	0
	0000 1111	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
JGR	0001 0000	200000						0	0	1	0	0	0	0	0		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	0001 0000	400501						0	1	0	0	0	0	0	0		0	0	0	0	0	1	0	1		0	0	0	0	0	0	0	1
	0001 0000	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
OTA	0001 0001	680400						0	1	1	0	1	0	0	0		0	0	0	0	0	1	0	0		0	0	0	0	0	0	0	0
	0001 0001	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
OTB	0001 0010	680100						0	1	1	0	1	0	0	0		0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0
	0001 0010	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
JM	0001 0011	600080						0	1	1	0	0	0	0	0		0	0	0	0	0	0	0		1	0	0	0	0	0	0	0	0
	0001 0011	000050						0	0	0	0	0	0	0	0		0	0	0	0	0	0	0		0	1	0	1	0	0	0	0	0
	0001 0011	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
LAM	0001 0100	200480						0	0	1	0	0	0	0	0		0	0	0	0	0	1	0	0		1	0	0	0	0	0	0	0
	0001 0100	000840						0	0	0	0	0	0	0	0		0	0	0	0	1	0	0	0		0	1	0	0	0	0	0	0
	0001 0100	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
LBM	0001 0101	200180						0	0	1	0	0	0	0	0		0	0	0	0	0	0	0	1		1	0	0	0	0	0	0	0
	0001 0101	000240						0	0	0	0	0	0	0	0		0	0	0	0	0	0	1	0		0	1	0	0	0	0	0	0
	0001 0101	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
OAM	0001 0110	600080						0	1	1	0	0	0	0	0		0	0	0	0	0	0	0		1	0	0	0	0	0	0	0	0
	0001 0110	080440						0	0	0	0	1	0	0	0		0	0	0	0	0	1	0	0		0	1	0	0	0	0	0	0
	0001 0110	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
OBM	0001 0111	600080						0	1	1	0	0	0	0	0		0	0	0	0	0	0	0		1	0	0	0	0	0	0	0	0
	0001 0111	080140						0	0	0	0	1	0	0	0		0	0	0	0	0	0	0	1		0	1	0	0	0	0	0	0
	0001 0111	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
WAB	0001 1000	200180						0	0	1	0	0	0	0	0		0	0	0	0	0	0	0	1		1	0	0	0	0	0	0	0
	0001 1000	000420						0	0	0	0	0	0	0	0		0	0	0	0	0	1	0	0		0	0	1	0	0	0	0	0
	0001 1000	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
WBA	0001 1001	200480						0	0	1	0	0	0	0	0		0	0	0	0	0	1	0	0		1	0	0	0	0	0	0	0
	0001 1001	000120						0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	1		0	0	1	0	0	0	0	0
	0001 1001	010000						0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
ATM	0001 1010	8200400	1	0	0	0		0	0	1	0	0	0	0	0		0	0	0	0	0	1	0	0		0	0	0	0	0	0	0	0
	0001 1010	0010000	0	0	0	0		0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
BTM	0001 1011	8200100	1	0	0	0		0	0	1	0	0	0	0	0		0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0
	0001 1011	0010000	0	0	0	0		0	0	0	0	0	0	0	1		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
MTA	0001 1100	4200800	0	1	0	0		0	0	1	0	0	0	0	0		0	0	0	0	1	0	0	0		0	0	0	0	0	0	0	0

			MMI	MMO	SI	SO		II	IO	CE	CO	OUT	CLO	HLT	RE		ADD	SUB	MUL	DIV	AI	AO	BI	BO		MI	MO	WR	J	JEQ	JNQ	JLS	JGR
	0001 1100	0010000	0	0	0	0		0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
MTA	0001 1101	4200200	0	1	0	0		0	0	1	0	0	0	0	0		0	0	0	0	0	0	1	0		0	0	0	0	0	0	0	0
	0001 1101	0010000	0	0	0	0		0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
JPA	0001 1110	2000400	0	0	1	0		0	0	0	0	0	0	0	0		0	0	0	0	0	1	0	0		0	0	0	0	0	0	0	0
	0001 1110	1000010	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	1	0	0	0	0
	0001 1110	0010000	0	0	0	0		0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
JPB	0001 1111	2000100	0	0	1	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	1		0	0	0	0	0	0	0	0	0
	0001 1111	1000010	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	1	0	0	0	0
	0001 1111	0010000	0	0	0	0		0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0