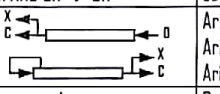
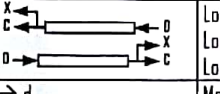
EASy68K Quick Reference v1.8 http://www.wowgwep.com/EASy68K.htm

Opcode	Size	Operand	CCR	Effective Address s=source, d=destination, e=either, i=displacement												Operation	Description
	BWL	s,d	XNZVC	Dn	An	(An)	(An)+	-(An)	(i,An)	(i,An,Rn)	abs.W	abs.L	(i,PC)	(i,PC,Rn)	#n		
ABCD	B	Dy,Dx	*U*U*	e	-	-	-	-	-	-	-	-	-	-	-	$Dy_{10} + Dx_{10} + X \rightarrow Dx_{10}$	Add BCD source and eXtend bit to
		-(Ay),-(Ax)		-	-	-	-	e	-	-	-	-	-	-	-	$-(Ay)_{10} + -(Ax)_{10} + X \rightarrow -(Ax)_{10}$	destination, BCD result
ADD [4]	BWL	s,Dn	*****	e	s	s	s	s	s	s	s	s	s	s	s[4]	s + Dn → Dn	Add binary (ADDI or ADDQ is used when
		Dn,d		e	d[4]	d	d	d	d	d	d	d	-	-	-	Dn + d → d	source is #n. Prevent ADDQ with #n.L)
ADDA [4]	WL	s,An	-----	s	e	s	s	s	s	s	s	s	s	s	s	s + An → An	Add address (.W sign-extended to .L)
ADDI [4]	BWL	#n,d	*****	d	-	d	d	d	d	d	d	d	-	-	s	#n + d → d	Add immediate to destination
ADDQ [4]	BWL	#n,d	*****	d	d	d	d	d	d	d	d	d	-	-	s	#n + d → d	Add quick immediate (#n range: 1 to 8)
ADDX	BWL	Dy,Dx	*****	e	-	-	-	-	-	-	-	-	-	-	-	Dy + Dx + X → Dx	Add source and eXtend bit to destination
		-(Ay),-(Ax)		-	-	-	-	e	-	-	-	-	-	-	-	-(Ay) + -(Ax) + X → -(Ax)	
AND [4]	BWL	s,Dn	-**00	e	-	s	s	s	s	s	s	s	s	s	s[4]	s AND Dn → Dn	Logical AND source to destination
		Dn,d		e	-	d	d	d	d	d	d	d	-	-	-	Dn AND d → d	(ANDI is used when source is #n)
ANDI [4]	BWL	#n,d	-**00	d	-	d	d	d	d	d	d	d	-	-	s	#n AND d → d	Logical AND immediate to destination
ANDI [4]	B	#n,CCR	=====	-	-	-	-	-	-	-	-	-	-	-	s	#n AND CCR → CCR	Logical AND immediate to CCR
ANDI [4]	W	#n,SR	=====	-	-	-	-	-	-	-	-	-	-	-	s	#n AND SR → SR	Logical AND immediate to SR (Privileged)
ASL	BWL	Dx,Dy	*****	e	-	-	-	-	-	-	-	-	-	-	-		Arithmetic shift Dy by Dx bits left/right
ASR		#n,Dy		d	-	-	-	-	-	-	-	-	-	-	s		Arithmetic shift Dy #n bits L/R (#n: 1 to 8)
	W	d		-	-	d	d	d	d	d	d	d	-	-	-		Arithmetic shift ds 1 bit left/right (.W only)
Bcc	BW[3]	address[2]	-----	-	-	-	-	-	-	-	-	-	-	-	-	if cc true then	Branch conditionally (cc table on back)
																address → PC	(8 or 16-bit ± offset to address)
BCHG	B L	Dn,d	--*--	e[1]	-	d	d	d	d	d	d	d	-	-	-	NOT(bit number of d) → Z	Set Z with state of specified bit in d then
		#n,d		d[1]	-	d	d	d	d	d	d	d	-	-	s	NOT(bit n of d) → bit n of d	invert the bit in d
BCLR	B L	Dn,d	--*--	e[1]	-	d	d	d	d	d	d	d	-	-	-	NOT(bit number of d) → Z	Set Z with state of specified bit in d then
		#n,d		d[1]	-	d	d	d	d	d	d	d	-	-	s	0 → bit number of d	clear the bit in d
BRA	BW[3]	address[2]	-----	-	-	-	-	-	-	-	-	-	-	-	-	address → PC	Branch always (8 or 16-bit ± offset to addr)
BSET	B L	Dn,d	--*--	e[1]	-	d	d	d	d	d	d	d	-	-	-	NOT(bit n of d) → Z	Set Z with state of specified bit in d then
		#n,d		d[1]	-	d	d	d	d	d	d	d	-	-	s	1 → bit n of d	set the bit in d
BSR	BW[3]	address[2]	-----	-	-	-	-	-	-	-	-	-	-	-	-	PC → -(SP); address → PC	Branch to subroutine (8 or 16-bit ± offset)
BTST	B L	Dn,d	--*--	e[1]	-	d	d	d	d	d	d	d	d	d	-	NOT(bit Dn of d) → Z	Set Z with state of specified bit in d
		#n,d		d[1]	-	d	d	d	d	d	d	d	d	d	s	NOT(bit #n of d) → Z	Leave the bit in d unchanged
CHK	W	s,Dn	-*UUU	e	-	s	s	s	s	s	s	s	s	s	s	if Dn<0 or Dn>s then TRAP	Compare Dn with 0 and upper bound [s]
CLR	BWL	d	-0100	d	-	d	d	d	d	d	d	d	-	-	-	0 → d	Clear destination to zero
CMP [4]	BWL	s,Dn	-****	e	s[4]	s	s	s	s	s	s	s	s	s	s[4]	set CCR with Dn - s	Compare Dn to source
CMPA [4]	WL	s,An	-****	s	e	s	s	s	s	s	s	s	s	s	s	set CCR with An - s	Compare An to source
CMPI [4]	BWL	#n,d	-****	d	-	d	d	d	d	d	d	d	-	-	s	set CCR with d - #n	Compare destination to #n
CMPM [4]	BWL	(Ay)+,(Ax)+	-****	-	-	-	e	-	-	-	-	-	-	-	-	set CCR with (Ax) - (Ay)	Compare (Ax) to (Ay); Increment Ax and Ay
DBcc	W	Dn,addres[2]	-----	-	-	-	-	-	-	-	-	-	-	-	-	if cc false then { Dn-1 → Dn	Test condition, decrement and branch
																if Dn <> -1 then addr →PC }	(16-bit ± offset to address)
DIVS	W	s,Dn	-***0	e	-	s	s	s	s	s	s	s	s	s	s	±32bit Dn / ±16bit s → ±Dn	Dn= [16-bit remainder, 16-bit quotient]
DIVU	W	s,Dn	-***0	e	-	s	s	s	s	s	s	s	s	s	s	32bit Dn / 16bit s → Dn	Dn= [16-bit remainder, 16-bit quotient]
EOR [4]	BWL	Dn,d	-**00	e	-	d	d	d	d	d	d	d	-	-	s[4]	Dn XOR d → d	Logical exclusive OR Dn to destination
EORI [4]	BWL	#n,d	-**00	d	-	d	d	d	d	d	d	d	-	-	s	#n XOR d → d	Logical exclusive OR #n to destination
EORI [4]	B	#n,CCR	=====	-	-	-	-	-	-	-	-	-	-	-	s	#n XOR CCR → CCR	Logical exclusive OR #n to CCR
EORI [4]	W	#n,SR	=====	-	-	-	-	-	-	-	-	-	-	-	s	#n XOR SR → SR	Logical exclusive OR #n to SR (Privileged)
EXG	L	Rx,Ry	-----	e	e	-	-	-	-	-	-	-	-	-	-	register ←→ register	Exchange registers (32-bit only)
EXT	WL	Dn	-**00	d	-	-	-	-	-	-	-	-	-	-	-	Dn.B → Dn.W | Dn.W → Dn.L	Sign extend (change .B to .W or .W to .L)
ILLEGAL			-----	-	-	-	-	-	-	-	-	-	-	-	-	PC→-(SSP); SR→-(SSP)	Generate Illegal Instruction exception
JMP		d	-----	-	-	d	-	-	d	d	d	d	d	d	-	↑d → PC	Jump to effective address of destination
JSR		d	-----	-	-	d	-	-	d	d	d	d	d	d	-	PC → -(SP); ↑d → PC	push PC, jump to subroutine at address d
LEA	L	s,An	-----	-	e	s	-	-	s	s	s	s	s	s	-	↑s → An	Load effective address of s to An
LINK		An,#n	-----	-	-	-	-	-	-	-	-	-	-	-	-	An → -(SP); SP → An;	Create local workspace on stack
																SP + #n → SP	(negative n to allocate space)
LSL	BWL	Dx,Dy	***0*	e	-	-	-	-	-	-	-	-	-	-	-		Logical shift Dy, Dx bits left/right
LSR		#n,Dy		d	-	-	-	-	-	-	-	-	-	-	s		Logical shift Dy, #n bits L/R (#n: 1 to 8)
	W	d		-	-	d	d	d	d	d	d	d	-	-	-		Logical shift d 1 bit left/right (.W only)
MOVE [4]	BWL	s,d	-**00	e	s[4]	e	e	e	e	e	e	e	s	s	s[4]	s → d	Move data from source to destination
MOVE	W	s,CCR	=====	s	-	s	s	s	s	s	s	s	s	s	s	s → CCR	Move source to Condition Code Register
MOVE	W	s,SR	=====	s	-	s	s	s	s	s	s	s	s	s	s	s → SR	Move source to Status Register (Privileged)
MOVE	W	SR,d	-----	d	-	d	d	d	d	d	d	d	-	-	-	SR → d	Move Status Register to destination
MOVE	L	USP,An	-----	-	d	-	-	-	-	-	-	-	-	-	-	USP → An	Move User Stack Pointer to An (Privileged)
		An,USP		-	s	-	-	-	-	-	-	-	-	-	-	An → USP	Move An to User Stack Pointer (Privileged)
	BWL	s,d	XNZVC	Dn	An	(An)	(An)+	-(An)	(i,An)	(i,An,Rn)	abs.W	abs.L	(i,PC)	(i,PC,Rn)	#n		