

INSTRUCTION SET

This table gives the addressing modes for each instruction. The Cycle and Flag Code column gives a code for operand sizes, instruction length, timing, and affect on flags.

Oper- Cycle and Inst ands Flag Code

Table listing instructions such as ADD, AND, OR, etc., with their corresponding operand sizes, cycle counts, and flag codes.

Table listing instructions such as BCLR, BRR, BRN, etc., with their corresponding operand sizes, cycle counts, and flag codes.

Table listing instructions such as CMPT, DCR, DCR2, etc., with their corresponding operand sizes, cycle counts, and flag codes.

Table listing instructions such as LEA, MOV, MOV2, etc., with their corresponding operand sizes, cycle counts, and flag codes.

Table listing instructions such as MOV3, MOV4, MOV5, etc., with their corresponding operand sizes, cycle counts, and flag codes.

Table listing instructions such as RTR, SRR, etc., with their corresponding operand sizes, cycle counts, and flag codes.

Table listing instructions such as STP, STPR, etc., with their corresponding operand sizes, cycle counts, and flag codes.

Table listing instructions such as TRAP, TRAPV, etc., with their corresponding operand sizes, cycle counts, and flag codes.

Table listing instructions such as UNLK, UNLK2, etc., with their corresponding operand sizes, cycle counts, and flag codes.

CYCLE CODES

Cycle codes give instructions length in words and execution time in CLKs.

Listed in order of increasing CLKs, increasing words, increasing reads/writes, and increasing writes.

Table mapping cycle codes to instruction names and their corresponding cycle counts.

INSTRUCTION NOTES

(Applicable where indicated) (1) Z is cleared if result is non-zero, but unchanged otherwise.

CONDITION DEFS

CC Carry Clear, CS Carry Set, EQ Equal, F False, G Greater or Equal, etc.

MOVE TABLE

Table showing the relationship between source and destination registers for various move instructions.

FLAGS

Flags Affected: A, X, N, Z, V, C, etc. and their meanings.

Condition for flag=1, except as noted in instruction descriptions.

ON HOT SURFACE

Inquires welcome. World copyright. All rights reserved.

FOR A PARTICULAR PURPOSE.

Curts A. Ingraham

#115A

