

FLOATING POINT

Initial Registers
AR = AC
MB = C(E)
MQ = 0

FMP
140-167

FDV
170-177

Initial Gates
FC(E)
ET4 INH

Initial Gates
FC(E)
ET4 INH

140-177

Action

XX specifies instruction
ZZ specifies mode

IR = 001 1XX YZZ
IR FP/CH = IR0-2(001)
IR FP = IR FP/CH ^ IR3(1)
Y specifies rounding, see Figure 4-11

00 = IR FAD
01 = IR FSB
10 = IR FMP
11 = IR FDV

IR FP ^ IR4,5
IR FP ^ IR7,8

00 = IR FP DIR AC R C(E) → AC
01 = IR FP REM AC R C(E) → AC, AC2
10 = IR FP MEM AC R C(E) → E
11 = IR FP BOTH AC R C(E) → E, AC

Operator R = +, -, X, *

FSC
132

IR = 001 011 010
IR FP/CH = IR0-2(001)
IR FP/CH3 = IR FP/CH ^ IR3-5(011)
IR FSC = IR FP/CH3 ^ IR6-8(010)
AC × 2^{E mod 256} → AC

Initial Registers
AR = AC
MB = C(E)
MQ = 0

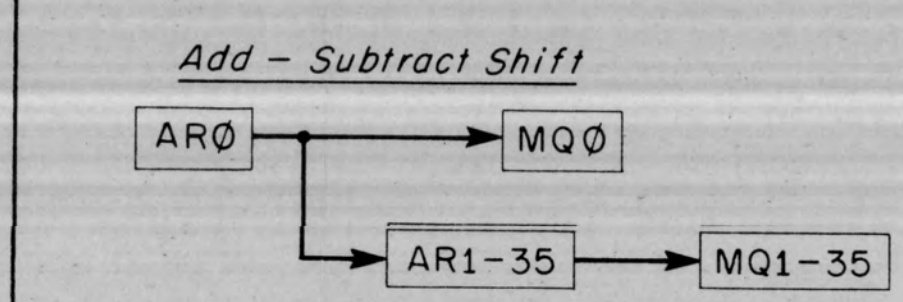
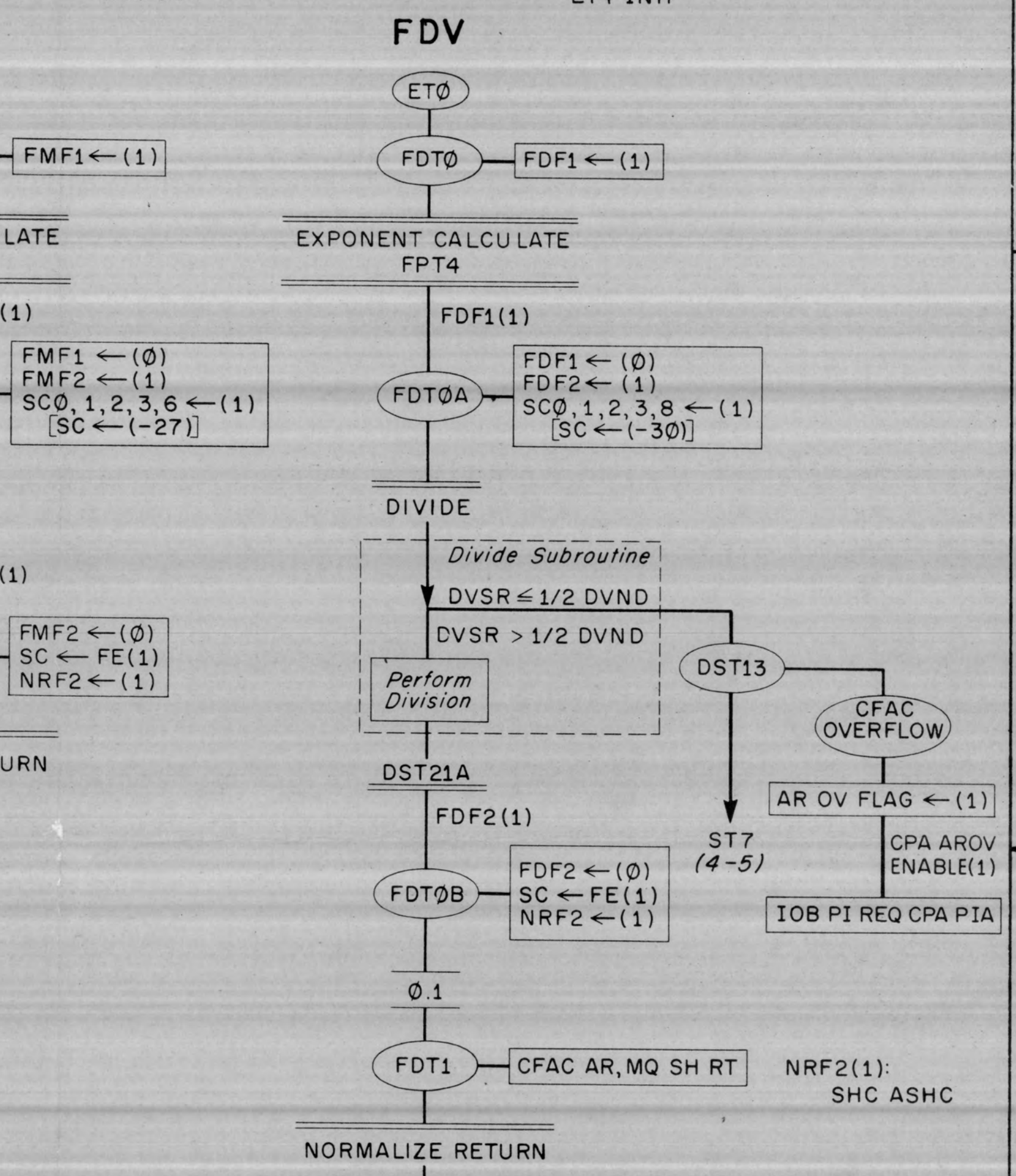
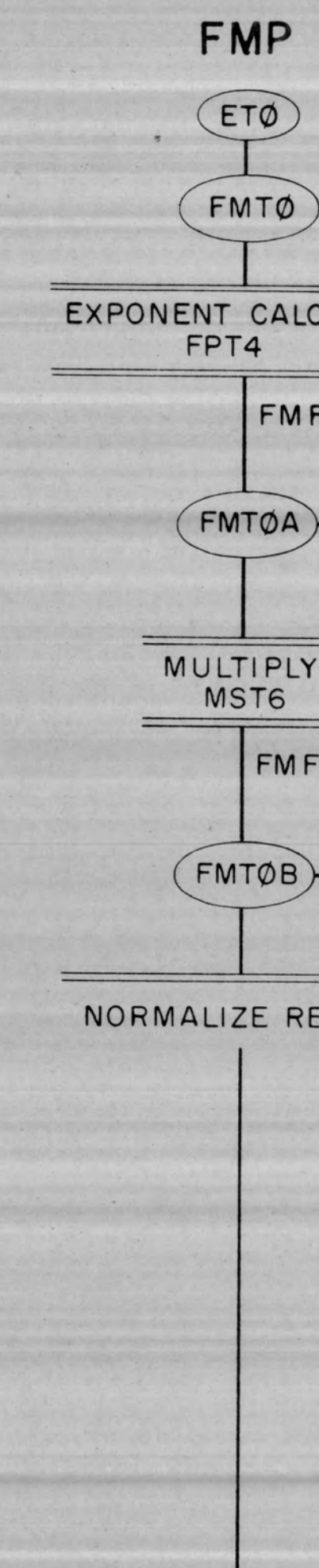
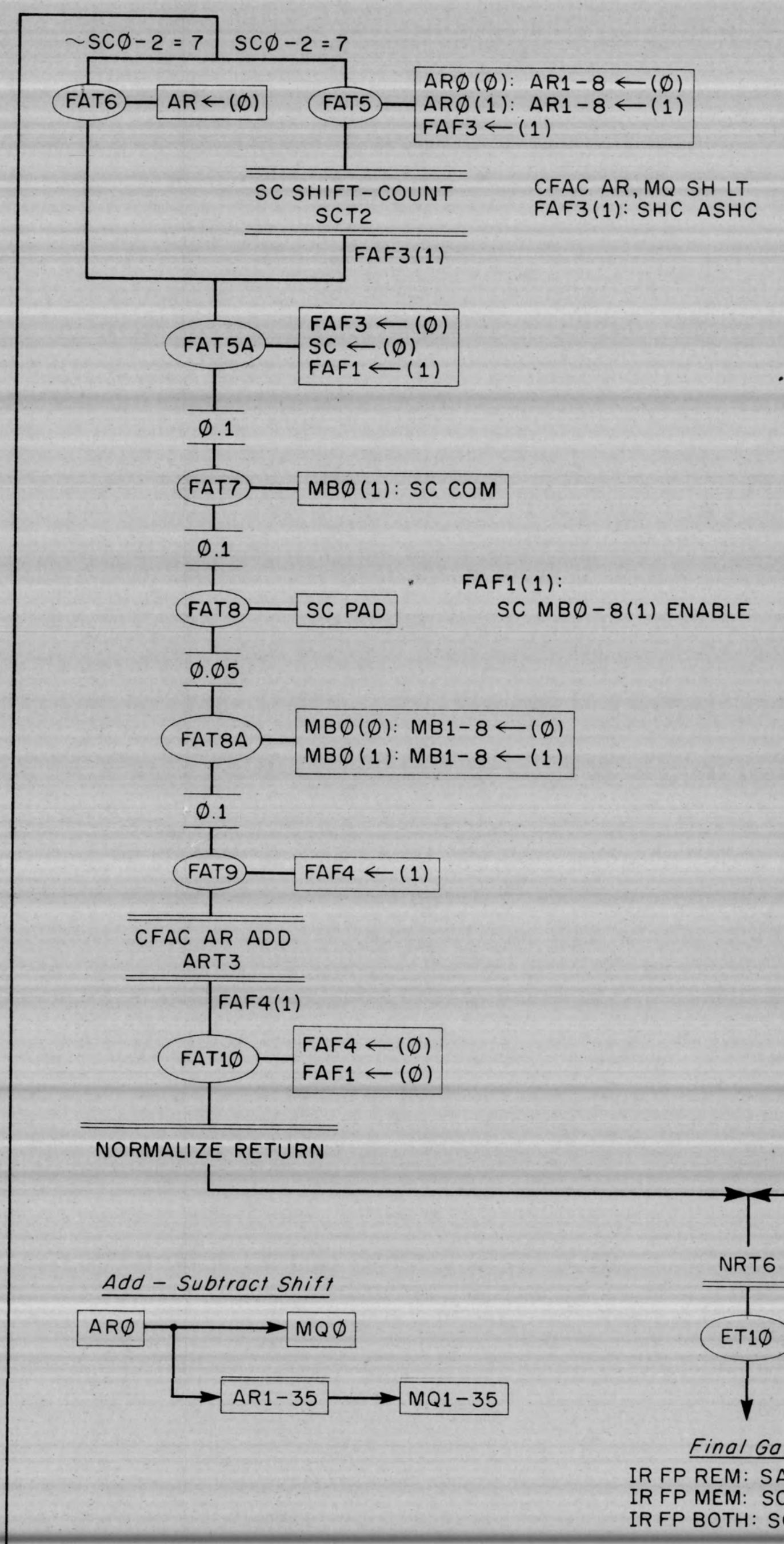
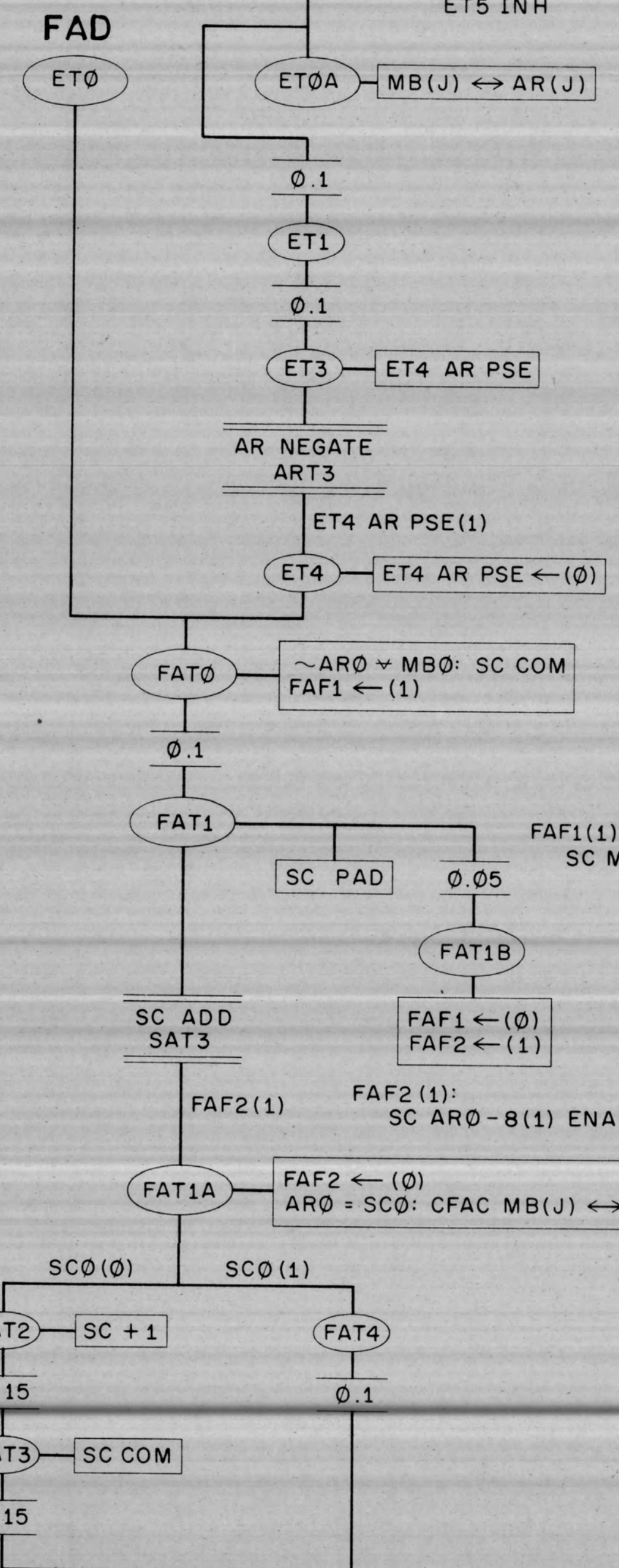
Initial Gate
ET4 INH

FAD
140-147

FSB
150-157

Initial Gates
FC(E)
ET4 INH

Initial Gates
FC(E)
ET4 INH
AR SBR
ET5 INH



Final Gates
IR FP REM: SAC2
IR FP MEM: SC(E), SAC INH
IR FP BOTH: SC(E)

ISSUED
MAR 21 1966

AP FIGURE 4-10

REV LTR A	REV NO 275	DATE 3-14-66	ENG AK	DRAWN C. CIAMPA	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE FLOATING POINT INSTRUCTIONS
				CHECKED W. ENGLISH	DATE		FOR ARITH PROC 166, PDP-6
				PROJ ENG R. SAVELL	DATE		DRWG NO FD D-166-O-FPF
				PROD	DATE		REV LTR A
SCALE		SHEET OF		ASSY NO		CODE	