I_{543} \ I_{210}	000	001	010	011	100	101	110	111	C_0 ---if--- $I_{11,12} = 3$	Y_3 ---if--- $\neg OE_Y = 0$	CT ------- see Mask	
000	Load... $M_x \rightarrow \mu_x$ $Y_{3x} \rightarrow M_x$	Set both $1 \rightarrow \mu_x$ $1 \rightarrow M_x$	Reg. Swap $M_x \rightarrow \mu_x$ $\mu_x \rightarrow M_x$	Reset both $0 \rightarrow \mu_x$ $0 \rightarrow M_x$	$I_x \rightarrow M_x$ $M_{OVR} \rightarrow M_C$ $M_C \rightarrow M_{OVR}$	Invert MSR $\neg M_x \rightarrow M_x$	Load with overflow retain $I_x \rightarrow \mu_x$ $(I_{OVR} \vee \mu_{OVR}) \rightarrow \mu_{OVR}$		$\mu_C \rightarrow C_0$ --- if carry invert $\neg\mu_C \rightarrow C_0$	$\mu_i \rightarrow Y_{3i}$ --- apart from LOAD Y_3	$\mu \rightarrow \mathcal{X}$ --- apart from ■	*LOAD μSR* $I_x \rightarrow \mu_x$
001	Reset μ_Z	Set μ_Z	Reset μ_C	Set μ_C	Reset μ_N	Set μ_N	Reset μ_{OVR}	Set μ_{OVR}				*LOAD BOTH*
	Load with carry invert $I_x \rightarrow M_x$ $\neg I_C \rightarrow M_C$						$I_N \oplus M_N$	$I_N \leftrightarrow M_N$				
010											$\mu \rightarrow \mathcal{X}$	*LOAD MSR* $I_x \rightarrow M_x$
011	Load with carry invert $I_x \rightarrow \mu_x$ $\neg I_C \rightarrow \mu_C$ $I_x \rightarrow M_x$ $\neg I_C \rightarrow M_C$											*LOAD* Y_3
100									$M_C \rightarrow C_0$ --- if carry invert $\neg M_C \rightarrow C_0$	$M_i \rightarrow Y_{3i}$	$M \rightarrow \mathcal{X}$	
101	Load with carry invert $I_x \rightarrow \mu_x$ $\neg I_C \rightarrow \mu_C$ $I_x \rightarrow M_x$ $\neg I_C \rightarrow M_C$											
110										$I_i \rightarrow Y_{3i}$	$I \rightarrow \mathcal{X}$ --- apart from ■	
111	Load with carry invert $I_x \rightarrow \mu_x$ $\neg I_C \rightarrow \mu_C$ $I_x \rightarrow M_x$ $\neg I_C \rightarrow M_C$											
	$\neg I_C \vee I_Z$	$I_C \wedge \neg I_Z$										

Everything according to "The Am2900 Family Data Book with Related Support Circuits" (AM-PUB003) Advanced Micro Devices, 1979. by Christian Femers, 2018

Condition Code (CT) Mask

$I_{\_3}$ \ I_{210}	000	001	010	011	100	101	110	111
__0	$(\mathcal{X}_N \oplus \mathcal{X}_{OVR}) \vee \mathcal{X}_Z$	$(\mathcal{X}_N \leftrightarrow \mathcal{X}_{OVR}) \wedge \neg\mathcal{X}_Z$	$\mathcal{X}_N \oplus \mathcal{X}_{OVR}$	$\mathcal{X}_N \leftrightarrow \mathcal{X}_{OVR}$	$\mathcal{X}_Z$	$\neg\mathcal{X}_Z$	$\mathcal{X}_{OVR}$	$\neg\mathcal{X}_{OVR}$
__1	$\mathcal{X}_C \vee \mathcal{X}_Z$	$\neg\mathcal{X}_C \wedge \neg\mathcal{X}_Z$	$\mathcal{X}_C$	$\neg\mathcal{X}_C$	$\neg\mathcal{X}_C \vee \mathcal{X}_Z$	$\mathcal{X}_C \wedge \neg\mathcal{X}_Z$	$\mathcal{X}_N$	$\neg\mathcal{X}_N$