; AltoIIMRT4K.mu ; last modified December 1, 1977 1:14 AM This is the part of the Memory Refresh Task which is specific to Alto IIs WITHOUT Extended memory. Copyright Xerox Corporation 1979 \$EngNumber \$20000; ALTO 2 WITHOUT EXTENDED MEMORY SINK← MOUSE, BUS; MOUSE DATA IS ANDED WITH 17B MRT: DISPATCH ON MOUSE CHANGE MRTA: L← T← -2, :TX0; L← T← R37 AND NOT T; UPDATE REFRESH ADDRESS TX0: T← 3+T+1, SH=0; L← REFIIMSK ANDT, :DOTIMER; STORE UPDATED REFRESH ADDRESS NOTIMER:R37← L; TIMERTN: L← REFZERO AND T; SH=0: TEST FOR CLOCK TICK : NOCLK; NOCLK: MAR← R37; FIRST FEFRESH CYCLE L← CURX; T← 2, SH=0; MAR← R37 XORT, :DOCUR; SECOND REFRESH CYCLE NOCUR: CURDATA← L, TASK; MRTLAST:CURDATA← L, :MRT; SAVE REFRESH ADDRESS DOTIMER:R37← L; MAR←EIALOC; INTERVAL TIMER/EIA INTERFACE L+2 AND T; SH=0, L+T+REFZERO.T; ***V3 CHANGE (USED TO BE BIAS) CURDATA-CURRENT TIME WITHOUT CONTROL BITS CURDATA←L, :SPCHK; SPCHK: SINK←MD, BUS=0, TASK; CHECK FOR EIA LINE SPACING :NOTIMERINT, CLOCKTEMP←L; SPIA: NOSPCHK: L←MD; CHECK FOR TIME=NOW MAR←TRAPDISP-1: CONTAINS TIME AT WHICH INTERRUPT SHOULD HAPPEN IF INTERRUPT IS CAUSED, MTEMP+L; LINE STATE WILL BE STORED L← MD-T; SH=0, TASK, L+MTEMP, :SPIA; STORE THE THING IN CLOCKTEMP AT ITQUAN TIMERINT:MAR← ITQUAN; L← CURDATA; R37← L; AND CAUSE AN INTERRUPT ON THE CHANNELS

SPECIFIED BY ITQUAN+1

T←NWW;

MD←CLOCKTEMP:

L+MD OR T, TASK;

NWW←L;

NOTIMERINT: T←R37, :TIMERTN;

;The rest of MRT, starting at the label CLOCK is unchanged