

CARD #	LOC	CODE	CARD						
3				666666	555555	333333	000000		
4				6	5	3	0	0	
5				6	5	3	0	0	
6				666666	555555	333333	0	0	
7				6	6	5	3	0	0
8				6	6	5	3	0	0
9				666666	555555	333333	000000		
10									
11									
12									
13					000000	000000	333333		
14					0	0	0	0	3
15				-----	0	0	0	0	3
16				-----	0	0	0	0	333333
17				-----	0	0	0	0	3
18					0	0	0	0	3
19					000000	000000	333333		
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6530-003 IS AN AUDIO CASSETT TAPE
 RECORDER EXTENSION OF THE BASIC
 KIM MONITOR

IT FEATURES TWO BASIC ROUTINES
 LOADT-LOAD MEM FROM AUDIO TAPE
 DUMPT-STOR MEM ONTO AUDIO TAPE

LOADT
 ID=00 IGNORE ID
 ID=FF IGN. ID USE SA FOR START ADDR
 ID=01-FE IGN.ID USE ADDR ON TAPE

DUMPT
 ID=00 SHOULD NOT BE USED
 ID=FF SHOULD NOT BE USED
 ID=01-FE NORMAL ID RANGE
 SAL LSB STARTING ADDRESS
 SAH MSB
 EAL LSB ENDING ADDRESS
 EAH MSB

CARD #	LDC	CODE	CARD
54		:	
55		:	EQUATES
56		:	SET UP FOR 6530-002 I/O
57		:	
58		SAD	=#1740 6530 A DATA
59		PADD	=#1741 6530 A DATA DIRECTION
60		SBD	=#1742 6530 B DATA
61		PBDD	=#1743 6530 B DATA DIRECTION
62		CLK1T	=#1744 DIV BY 1 TIME
63		CLK8T	=#1745 DIV BY 8 TIME
64		CLK64T	=#1746 DIV BY 64 TIME
65		CLKKT	=#1747 DIV BY 1024 TIME
66		CLKRDI	=#1747 READ TIME OUT BIT
67		CLKRDT	=#1746 READ TIME
68		:	
69	0000		◆=#00EF
70		:	MPU REG. SAVX AREA IN PAGE 0
71		:	
72	00EF	PCL	◆◆◆+1 PROGRAM CNT LOW
73	00F0	PCH	◆◆◆+1 PROGRAM CNT HI
74	00F1	PREG	◆◆◆+1 CURRENT STATUS REG.
75	00F2	SPUSER	◆◆◆+1 CURRENT STACK POINT
76	00F3	ACC	◆◆◆+1 ACCUMULATOR
77	00F4	XREG	◆◆◆+1 X INDEX
78	00F5	YREG	◆◆◆+1 Y INDEX
79		:	
80		:	KIM FIXED AREA IN PAGE 0
81		:	
82	00F6	CHKHI	◆◆◆+1
83	00F7	CHKSUM	◆◆◆+1
84	00F8	INL	◆◆◆+1 INPUT BUFFER
85	00F9	INH	◆◆◆+1 INPUT BUFFER
86	00FA	POINTL	◆◆◆+1 LSB OF OPEN CELL
87	00FB	POINTH	◆◆◆+1 MSB OF OPEN CELL
88	00FC	TEMP	◆◆◆+1
89	00FD	TMPX	◆◆◆+1
90	00FE	CHAR	◆◆◆+1
91	00FF	MODE	◆◆◆+1
92		:	
93		:	KIM FIXED AREA IN PAGE 23
94		:	
95	0100		◆=#17E7
96	17E7	CHKL	◆◆◆+1
97	17E8	CHKH	◆◆◆+1
98	17E9	SAVX	◆◆◆+3
99	17EC	VEB	◆◆◆+6
100	17F2	CNTL30	◆◆◆+1
101	17F3	CNTH30	◆◆◆+1
102	17F4	TIMH	◆◆◆+1
103	17F5	SAL	◆◆◆+1
104	17F6	SAH	◆◆◆+1
105	17F7	EAL	◆◆◆+1

CARD #	LOC	CODE	CARD	
106	17F8		EAH	◆◆+1 HI ENDING ADDRESS
107	17F9		ID	◆◆+1
108			;	
109			;	INTERRUPT VECTORS
110			;	
111	17FA		NMIV	◆◆+2 STOP VECTOR (STOP=1000)
112	17FB		RSTV	◆◆+2 RST VECTOR
113	17FE		IRQV	◆◆+2 IRQ VECTOR (BRK= 1000)
114			;	

CARD #	LOC	CODE	CARD		
116	1800			◆=\$1800	
117				;	
118				;	INIT VOLATILE EXECUTION BLOCK
119				;	DUMP MEM TO TAPE
120				;	
121	1800	A9 AD	DUMPT	LDA #3AD	LOAD ABSOLUTE INST
122	1802	8D EC 17		STA VEB	
123	1805	20 32 19		JSR INTVEB	
124				;	
125	1808	A9 27		LDA #327	TURN OFF DATAIN PB5
126	180A	8D 42 17		STA SBD	
127	180D	A9 BF		LDA #3BF	CONVERT PB7 TO OUTPUT
128	180F	8D 43 17		STA PBDD	
129				;	
130	1812	A2 64		LDX #364	100 CHARS
131	1814	A9 16	DUMPT1	LDA #316	SYN CHAR'S
132	1816	20 7A 19		JSR OUTCHT	
133	1819	CA		DEX	
134	181A	D0 F8		BNE DUMPT1	
135				;	
136				;	
137	181C	A9 2A		LDA #3	START CHAR
138	181E	20 7A 19		JSR OUTCHT	
139				;	
140	1821	AD F9 17		LDA ID	OUTPUT ID
141	1824	20 61 19		JSR OUTBT	
142				;	
143	1827	AD F5 17		LDA SAL	OUTPUT STARTING
144	182A	20 5E 19		JSR OUTBTC	ADDRESS
145	182D	AD F6 17		LDA SAH	
146	1830	20 5E 19		JSR OUTBTC	
147				;	
148	1833	AD ED 17	DUMPT2	LDA VEB+1	CHECK FOR LAST
149	1836	CD F7 17		CMP EAL	DATA BYTE
150	1839	AD EE 17		LDA VEB+2	
151	183C	ED F8 17		SBC EAH	
152	183F	90 24		BCC DUMPT4	
153				;	
154	1841	A9 2F		LDA #3	OUTPUT END OF DATA CHR
155	1843	20 7A 19		JSR OUTCHT	
156	1846	AD E7 17		LDA CHKL	LAST BYTE HAS BEEN
157	1849	20 61 19		JSR OUTBT	OUT PUT NOW OUTPUT
158	184C	AD E8 17		LDA CHKH	CHKSUM
159	184F	20 61 19		JSR OUTBT	
160				;	
161				;	
162	1852	A2 02		LDX #302	2 CHAR'S
163	1854	A9 04	DUMPT3	LDA #304	EDT CHAR
164	1856	20 7A 19		JSR OUTCHT	
165	1859	CA		DEX	
166	185A	D0 F8		BNE DUMPT3	
167				;	

CARD #	LOC	CODE	CARD		
168	185C	A9 00	LDA	#\$00	DISPLAY 0000
169	185E	85 FA	STA	POINTL	FOR NORMAL EXIT
170	1860	85 FB	STA	POINTH	
171	1862	4C 4F 1C	JMP	START	
172			;		
173	1865	20 EC 17	DUMPT4 JSR	VEB	DATA BYTE OUTPUT
174	1868	20 5E 19	JSR	OUTBTC	
175			;		
176	186B	20 EA 19	JSR	INCVEB	
177	186E	4C 33 18	JMP	DUMPT2	
178			;		
179			;	LOAD MEMORY FROM TAPE	
180			;		
181			;		
182	1871	0F 19	TAB	.WORD	LOAD12
183	1873	A9 8D	LOADT LDA	#\$8D	INIT VOLATILE EXECUTION
184	1875	8D EC 17	STA	VEB	BLOCK WITH STA ABS.
185	1878	20 32 19	JSR	INTVEB	
186			;		
187	187B	A9 4C	LDA	#\$4C	JUMP TYPE RTRN
188	187D	8D EF 17	STA	VEB+3	
189	1880	AD 71 18	LDA	TAB	
190	1883	8D F0 17	STA	VEB+4	
191	1886	AD 72 18	LDA	TAB+1	
192	1889	8D F1 17	STA	VEB+5	
193			;		
194	188C	A9 07	LDA	#\$07	RESET PB5=0 (DATA IN)
195	188E	8D 42 17	STA	SBD	
196			;		
197	1891	A9 FF	SYNC LDA	#\$FF	CLEAR SAVX FOR SYNC AREA
198	1893	8D E9 17	STA	SAVX	
199			;		
200	1896	20 41 1A	SYNC1 JSR	RDBIT	GET A BIT
201	1899	4E E9 17	LSR	SAVX	SHIFT BIT INTO CHAR
202	189C	0D E9 17	ORA	SAVX	
203	189F	8D E9 17	STA	SAVX	
204	18A2	AD E9 17	LDA	SAVX	GET NEW CHAR
205	18A5	C9 16	CMP	#\$16	SYN CHAR
206	18A7	D0 ED	BNE	SYNC1	
207			;		
208	18A9	A2 0A	LDX	#\$0A	TEST FOR 10 SYN CHARS
209	18AB	20 24 1A	SYNC2 JSR	RDCHT	
210	18AE	C9 16	CMP	#\$16	
211	18B0	D0 DF	BNE	SYNC	IF NOT 10 CHAR RE-SYNC
212	18B2	CA	DEX		
213	18B3	D0 F6	BNE	SYNC2	
214			;		
215			;		
216	18B5	20 24 1A	LOADT4 JSR	RDCHT	LOOK FOR START OF
217	18B8	C9 2A	CMP	#\$*	DATA CHAR
218	18BA	F0 06	BEQ	LOAD11	
219	18BC	C9 16	CMP	#\$16	IF NOT * SHOULD BE SYN

CARD #	LOC	CODE	CARD			
220	18BE	D0 D1		BNE	SYNC	
221	18C0	F0 F3		BEQ	LOADT4	
222						
223	18C2	20 F3 19	LOAD11	JSR	RDBYT	READ ID FROM TAPE
224	18C5	CD F9 17		CMP	ID	COMPARE WITH REQUESTED ID
225	18C8	F0 0D		BEQ	LOADT5	
226	18CA	AD F9 17		LDA	ID	DEFAULT 00 READ RECORD
227	18CD	C9 00		CMP	#\$00	ANYWAY
228	18CF	F0 06		BEQ	LOADT5	
229	18D1	C9 FF		CMP	#\$FF	DEFAULT FF IGNOR SA ON
230	18D3	F0 17		BEQ	LOADT6	TAPE
231	18D5	D0 9C		BNE	LOADT	
232						
233	18D7	20 F3 19	LOADT5	JSR	RDBYT	GET SA FROM TAPE
234	18DA	20 4C 19		JSR	CHKT	
235	18DD	8D ED 17		STA	VEB+1	SAVX IN VEB+1,2
236	18E0	20 F3 19		JSR	RDBYT	
237	18E3	20 4C 19		JSR	CHKT	
238	18E6	8D EE 17		STA	VEB+2	
239	18E9	4C F8 18		JMP	LOADT7	
240						
241	18EC	20 F3 19	LOADT6	JSR	RDBYT	GET SA BUT IGNORE
242	18EF	20 4C 19		JSR	CHKT	
243	18F2	20 F3 19		JSR	RDBYT	
244	18F5	20 4C 19		JSR	CHKT	
245						
246						
247	18F8	A2 02	LOADT7	LDX	#\$02	GET 2 CHARS
248	18FA	20 24 1A	LOAD13	JSR	RDCHT	GET CHAR(X)
249	18FD	C9 2F		CMP	#'/	LOOK FOR LAST CHAR
250	18FF	F0 14		BEQ	LOADT8	
251	1901	20 00 1A		JSR	PACKT	CONVERT TO HEX
252	1904	D0 23		BNE	LOADT9	Y=1 NON-HEX CHAR
253	1906	CA		DEX		
254	1907	D0 F1		BNE	LOAD13	
255						
256	1909	20 4C 19		JSR	CHKT	COMPUTE CHECKSUM
257	190C	4C EC 17		JMP	VEB	SAVX DATA IN MEMORY
258	190F	20 6A 19	LOAD12	JSR	INCVEB	INCREMENT DATA POINTER
259	1912	4C F8 18		JMP	LOADT7	
260						
261	1915	20 F3 19	LOADT8	JSR	RDBYT	END OF DATA COMPARE CHKSUM
262	1918	CD E7 17		CMP	CHKL	
263	191B	D0 0C		BNE	LOADT9	
264	191D	20 F3 19		JSR	RDBYT	
265	1920	CD E8 17		CMP	CHKH	
266	1923	D0 04		BNE	LOADT9	
267	1925	A9 00		LDA	#\$00	NORMAL EXIT
268	1927	F0 02		BEQ	LOAD10	
269						
270	1929	A9 FF	LOADT9	LDA	#\$FF	ERROR EXIT
271	192B	85 FA	LOAD10	STA	POINTL	

CARD #	LOC	CODE	CARD	STA	POINTH
272	192D	85 FB			
273	192F	4C 4F 1C		JMP	START
274					



```

CARD # LOC      CODE      CARD
276          ;
277          ;      SUBROUTINES FOLLOW
278          ;
279          ;      SUB TO MOVE SA TO VEB+1,2
280          ;
281 1932 AD F5 17 INTVEB LDA   SAL
282 1935 8D ED 17      STA   VEB+1
283 1938 AD F6 17      LDA   SAH
284 193B 8D EE 17      STA   VEB+2
285 193E A9 60          LDA   #$60      RTS INST
286 1940 8D EF 17      STA   VEB+3
287 1943 A9 00          LDA   #$00      CLEAR CHKSUM AREA
288 1945 8D E7 17      STA   CHKL
289 1948 8D E8 17      STA   CHKH
290 194B 60            RTS
291          ;
292          ;      COMPUTE CHKSUM FOR TAPE LOAD
293          ;      RTN USES Y TO SAVX A
294          ;
295 194C A8            CHKT  TAY
296 194D 18            CLC
297 194E 6D E7 17     ADC   CHKL
298 1951 8D E7 17     STA   CHKL
299 1954 AD E8 17     LDA   CHKH
300 1957 69 00        ADC   #$00
301 1959 8D E8 17     STA   CHKH
302 195C 98            TYA
303 195D 60            RTS
304          ;
305          ;      OUTPUT ONE BYTE USE Y
306          ;      TO SAVX BYTE
307          ;
308 195E 20 4C 19     OUTBTC JSR   CHKT      COMP CHKSUM
309 1961 A8            OUTBT  TAY      SAVX DATA BYTE
310 1962 4A            LSR   A        SHIFT OFF LSD
311 1963 4A            LSR   A
312 1964 4A            LSR   A
313 1965 4A            LSR   A
314 1966 20 6F 19     JSR   HEXOUT   OUT PUT MSD
315 1969 98            TYA
316 196A 20 6F 19     JSR   HEXOUT   OUT PUT LSD
317 196D 98            TYA
318 196E 60            RTS
319          ;
320          ;      CONVERT LSD OF A TO ASCII
321          ;      AND OUTPUT TO TAPE
322          ;
323 196F 29 0F        HEXOUT AND   #$0F
324 1971 C9 0A        CMP   #$0A
325 1973 18            CLC
326 1974 30 02        BMI   HEX1
327 1976 69 07        ADC   #$07

```


CARD #	LOC	CODE	CARD			
328	1978	69 30	HEX1	ADC	#B30	
329			:			
330			:	OUTPUT TO TAPE ONE ASCII		
331			:	CHAR USE SUB'S ONE + ZRO		
332			:			
333	197A	8E E9 17	OUTCHT	STX	SAVX	
334	197D	8C EA 17		STY	SAVX+1	
335	1980	A0 08		LDY	#B08	START BIT
336	1982	20 9E 19	CHT1	JSR	ONE	
337	1985	4A		LSR	A	GET DATA BIT
338	1986	B0 06		BCS	CHT2	
339	1988	20 9E 19		JSR	ONE	DATA BIT=1
340	198B	4C 91 19		JMP	CHT3	
341	198E	20 C4 19	CHT2	JSR	ZRO	DATA BIT=0
342	1991	20 C4 19	CHT3	JSR	ZRO	
343	1994	88		DEY		
344	1995	D0 EB		BNE	CHT1	
345	1997	AE E9 17		LDX	SAVX	
346	199A	AC EA 17		LDY	SAVX+1	
347	199D	60		RTS		
348			:			
349			:			
350			:	OUTPUT 1 TO TAPE		
351			:	9 PULSES 138 MICROSEC EACH		
352			:			
353	199E	A2 09	ONE	LDX	#B09	
354	19A0	48		PHA		SAVX A
355	19A1	2C 47 17	ONE1	BIT	CLKRDI	WAIT FOR TIME OUT
356	19A4	10 FB		BPL	ONE1	
357	19A6	A9 7E		LDA	#126	
358	19A8	8D 44 17		STA	CLK1T	
359	19AB	A9 A7		LDA	#BA7	
360	19AD	8D 42 17		STA	SBD	SET PB7=1
361	19B0	2C 47 17	ONE2	BIT	CLKRDI	
362	19B3	10 FB		BPL	ONE2	
363	19B5	A9 7E		LDA	#126	
364	19B7	8D 44 17		STA	CLK1T	
365	19BA	A9 27		LDA	#B27	
366	19BC	8D 42 17		STA	SBD	RESET PB7=0
367	19BF	CA		DEX		
368	19C0	D0 DF		BNE	ONE1	
369	19C2	68		PLA		
370	19C3	60		RTS		
371			:			
372			:			
373			:	OUTPUT 0 TO TAPE		
374			:	6 PULSES 207 MICROSEC EACH		
375			:			
376	19C4	A2 06	ZRO	LDX	#B06	
377	19C6	48		PHA		SAVX A
378	19C7	2C 47 17	ZRO1	BIT	CLKRDI	
379	19CA	10 FB		BPL	ZRO1	

CARD #	LDC	CODE	CARD		
380	190C	A9 03		LDA	#195
381	190E	8D 44 17		STA	CLK1T
382	19D1	A9 47		LDA	#\$A7
383	19D3	8D 42 17		STA	SBD SET PB7=1
384	19D6	2C 47 17	ZR02	BIT	CLKRDI
385	19D9	10 FB		BPL	ZR02
386	19DB	A9 03		LDA	#195
387	19DD	8D 44 17		STA	CLK1T
388	19E0	A9 27		LDA	#\$27
389	19E2	8D 42 17		STA	SBD RESET PB7=0
390	19E5	CA		DEX	
391	19E6	D0 DF		BNE	ZR01
392	19E8	68		PLA	RESTORE A
393	19E9	60		RTS	
394				:	
395				:	SUB TO INC VEB+1,2
396				:	
397	19EA	EE ED 17	INCVEB	INC	VEB+1
398	19ED	D0 03		BNE	INCVE1
399	19EF	EE EE 17		INC	VEB+2
400	19F2	60	INCVE1	RTS	
401				:	
402				:	SUB TO READ BYTE FROM TAPE
403				:	
404	19F3	20 24 1A	RDBYT	JSR	RDCHT
405	19F6	20 00 1A		JSR	PACKT
406	19F9	20 24 1A	RDBYT2	JSR	RDCHT
407	19FC	20 00 1A		JSR	PACKT
408	19FF	60		RTS	
409				:	
410				:	PACK A=ASCII INTO SAVX
411				:	AS HEX DATA
412				:	
413	1A00	C9 30	PACKT	CMP	#\$30
414	1A02	30 1E		BMI	PACKT3
415	1A04	C9 47		CMP	#\$47
416	1A06	10 1A		BPL	PACKT3
417	1A08	C9 40		CMP	#\$40
418	1A0A	30 03		BMI	PACKT1
419	1A0C	18		CLC	
420	1A0D	69 09		ADC	#\$09
421	1A0F	2A	PACKT1	ROL	A
422	1A10	2A		ROL	A
423	1A11	2A		ROL	A
424	1A12	2A		ROL	A
425	1A13	A0 04		LDY	#\$04
426	1A15	2A	PACKT2	ROL	A
427	1A16	2E E9 17		ROL	SAVX
428	1A19	88		DEY	
429	1A1A	D0 F9		BNE	PACKT2
430	1A1C	AD E9 17		LDA	SAVX
431	1A1F	A0 00		LDY	#\$00 Y=0 VALID HEX CHAR

CARD #	LOC	CODE	CARD		
432	1A21	60	RTS		Y=0 VALID HEX
433	1A22	08	PACKT3	INY	Y=1 NOT HEX
434	1A23	60	RTS		
435			;		
436			;		
437			;	GET 1 CHAR FROM TAPE AND RETURN	
438			;	WITH CHAR IN A USE SAVX+1 TO ASM CHAR	
439	1A24	3E EB 17	RDCHT	STX SAVX+2	
440	1A27	A2 08		LDX #B08	READ 8 BITS
441	1A29	20 41 1A	RDCHT1	JSR RDBIT	GET NEXT DATA BIT
442	1A2C	4E EA 17		LSR SAVX+1	RIGHT SHIFT CHAR
443	1A2F	0D EA 17		ORA SAVX+1	OR IN SIGN BIT
444	1A32	8D EA 17		STA SAVX+1	REPLACE CHAR
445	1A35	CA		DEX	
446	1A36	D0 F1		BNE RDCHT1	
447			;		
448	1A38	AD EA 17		LDA SAVX+1	MOVE CHAR INTO A
449	1A3B	3A		ROL A	SHIFT OFF PARITY
450	1A3C	4A		LSR A	
451	1A3D	AE EB 17		LDX SAVX+2	
452	1A40	60	RTS		
453			;		
454			;	THIS SUB GETS ONE BIT FROM	
455			;	TAPE AND RETURNS IT IN SIGN OF A	
456			;		
457	1A41	2C 42 17	RDBIT	BIT SBD	WAIT FOR END OF START BIT
458	1A44	10 FB		BPL RDBIT	
459	1A46	AD 46 17		LDA CLKRDT	GET START BIT TIME
460	1A49	A0 FF		LDY #BFF	A=256-T1
461	1A4B	8C 46 17		STY CLK64T	SET UP TIMER
462			;		
463	1A4E	A0 14		LDY #B14	
464	1A50	98	RDBIT3	DEY	DELAY 100 MICROSEC
465	1A51	D0 FD		BNE RDBIT3	
466			;		
467	1A53	2C 42 17	RDBIT2	BIT SBD	
468	1A56	30 FB		BMI RDBIT2	WAIT FOR NEXT START BIT
469			;		
470	1A58	38		SEC	
471	1A59	ED 46 17		SBC CLKRDT	(256-T1)-(256-T2)=T2-T1
472	1A5C	A0 FF		LDY #BFF	
473	1A5E	8C 46 17		STY CLK64T	SET UP TIMER FOR NEXT BIT
474			;		
475	1A61	A0 07		LDY #B07	
476	1A63	88	RDBIT4	DEY	DELAY 50 MICROSEC
477	1A64	D0 FD		BNE RDBIT4	
478			;		
479	1A66	49 FF		EOR #BFF	COMPLEMENT SIGN OF A
480	1A68	29 80		AND #B80	MASK ALL EXCEPT SIGN
481	1A6A	60	RTS		

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CARD # LOC      CODE      CARD
483          ;
484          ;      DIAGNOSTICS
485          ;      MEMORY
486          ;      PLLCAL
487          ;
488          ;
489          ;
490          ;      PLLCAL OUTPUT 166 MICROSEC
491          ;      PULSE STRING
492          ;
493 1A6B  A9 27      PLLCAL LDA  #27
494 1A6D  8D 42 17      STA  SBD          TURN OFF DATIN PB5=1
495 1A70  A9 BF          LDA  #BF          CONVERT PB7 TO OUTPUT
496 1A72  8D 43 17      STA  PBDD
497          ;
498 1A75  2C 47 17      PLL1  BIT  CLKRDI
499 1A78  10 FB          BPL  PLL1
500 1A7A  A9 9A          LDA  #154        WAIT 166 MICRO SEC
501 1A7C  8D 44 17      STA  CLK1T
502 1A7F  A9 A7          LDA  #A7        OUTPUT PB7=1
503 1A81  8D 42 17      STA  SBD
504          ;
505 1A84  2C 47 17      PLL2  BIT  CLKRDI
506 1A87  10 FB          BPL  PLL2
507 1A89  A9 9A          LDA  #154
508 1A8B  8D 44 17      STA  CLK1T
509 1A8E  A9 27          LDA  #27        PB7=0
510 1A90  8D 42 17      STA  SBD
511 1A93  4C 75 1A          JMP  PLL1
512          ;
513          ;
514          ;      INTERRUPTS PAGE 27
515          ;
516 1A96          ;      *==+$0164  RESERVED FOR TEST
517 1BFA  6B 1A          NMIP27 .WORD PLLCAL
518 1BFC  6B 1A          RSTP27 .WORD PLLCAL
519 1BFE  6B 1A          IRQP27 .WORD PLLCAL
520          ;

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