

LABEL 00000000PRINTER0016428901

OPROGRAM

March 17 1965
1006
MIX Assembly Program, Test Deck, and Loading
Routine
correction made 3/25/65 JOW in TALKS AT

NOP	000
ADD	501
SUB	502
MUL	503
DIV	504
NUM	005
CHAR	100
CHLT	105
SSLA	006
SSLRA	106
SSLAX	206
SRAX	306
SLC	406
SRC	506
MOVE	107
LDA	508
LD1	509
LD2	510
LD3	511
LD4	512
LD5	513
LD6	514
LDAN	515
LD1N	516
LD2N	517
LD3N	518
LD4N	519
LD5N	520
LD6N	521
LDXN	522
STA	523
ST1	524
ST2	525
ST3	526
ST4	527
ST5	528
ST6	529
STX	530
STJZ	531
STZ	532
JBUS	533
IOC	534
IN	035
OUT	036
JREDO	037
JMP	038
JSJ	039
JOV	139
JNOV	239
JL	339
JE	439
JGE	539
JNE	639
JLE	739
JAN	839
J1N	939
J2N	040
J3N	041
J4N	042
J5N	043
J6N	044
JXN	045
JAZ	046
J1Z	047
J2Z	048
J3Z	049
J4Z	050
J5Z	051
J6Z	052
JXZ	053
JAPP	054
J1P	055
J2P	056
J3P	057
J4P	058
J5P	059
J6P	060
JXP	061
JANN	062

J1NN341
J2NN342
J3NN343
J4NN344
J5NN345
J6NN346
JXNN347
JANZ440
J1NZ441
J2NZ442
J3NZ443
J4NZ444
J5NZ445
J6NZ446
JXNZ447
JANP540
J1NP541
J2NP542
J3NP543
J4NP544
J5NP545
J6NP546
JXNP547
INCA048
IDECA148
EENTA248
ENNNA348
INC1049
DEC1149
ENT1249
ENN1349
INC2050
DEC2150
ENT2250
ENN2350
INC3051
DEC3151
ENT3251
ENN3351
INC4052
DEC4152
ENT4252
ENN4355
INC5053
DEC5153
ENT5253
ENN5353
INC6054
DEC6154
ENT6254
ENN6354
INCX055
DECX1555
ENTX2555
ENN X3555
CMPA556
CMP1557
CMP2558
CMP3559
CMP4560
CMP5561
CMP6562
CMPX563
ORIGO-2
EQU 0-3
CON 0-4
ALF 0-5
END 0-6

.....

ASMBL

..... MIX ASSEMBLY PROGRAM

/- 0001 00 00 39

0140	06	02	53	00000
0100	00	02	51	00001
0000	03	03	51	0002
0000	05	01	36	0003
0000	03	00	53	0004
0099	00	02	49	0005
0099	05	02	50	0006
0099	05	05	08	0007
0001	00	01	50	0008
0000	02	05	01	0009
0001	00	01	49	0010
0008	06	02	41	0011
0001	06	01	40	0012
0001	00	02	05	0013
0002	00	01	35	0014
0000	05	01	36	0015
0000	03	01	53	0016
0003	06	00	39	0017
0000	02	45	12	0018
0098	05	02	49	0019
0001	06	01	44	0020
0000	02	28	09	0021
0023	06	36	28	0022
0001	02	23	07	0023
0001	04	00	50	0024
0018	06	00	39	0025
0001	00	01	50	0026
0000	02	02	12	0027
0000	02	02	24	0028
0000	04	02	50	0029
0027	06	03	44	0030
0001	00	01	49	0031
0000	01	37	10	0032
0000	01	02	08	0033
0026	06	02	42	0034
0002	06	01	40	0035
0000	00	01	35	0036
0000	01	19	09	0037
0000	01	02	39	0038
0000	01	00	39	0039
			0040	
40	40	40	40	0100
00	14	09	27	00
01	22	22	05	14
02	13	28	00	17
19	16	07	19	01
14	00	40	40	0106
40	40	40	40	0107
40	40	40	40	0108
40	40	40	40	0109
40	40	40	40	0110
40	40	40	40	0111
40	40	40	40	0112
40	40	40	40	0113
40	40	40	40	0114

0000 ORIG 3999
0000 JMP BEGIN

***** MIX ASSEMBLY PROGRAM

AUGUST, 1964

40000 BYTESIZE EQU 1(4-4)
40000 READER EQU 16
40000 PRINTER EQU 18
40000 TAPE EQU 1
40000 TBUF EQU 0
40000 PBUF1 EQU TBUF+101
40000 PBUF2 EQU PBUF1+26
40000 RBUF1 EQU PBUF2+25
40000 RBUF2 EQU RBUF1+17
40000 TABLE1 EQU 850
40000 SIZE EQU 1050
40000 EQUIV EQU TABLE1+SIZE
40000 TABLE2 EQU EQUIV+SIZE

CONTENTS OF BUFFER AREAS

40000 LOADER ORIG 0
40000 ENT5 140,6
40000 ENT3 100
40000 ENN3 0,3
40000 IN 0,5(TAPE)
40000 INC5 0,3
40000 ENT1 99
40000 ENT2 99,5
40000 LDA 99,5
40000 DEC2 1
40000 ADD 0,2
40000 DEC1 1
40000 J1P *-3,6
40000 JAZ 2F,6
40000 HLT 1
40000 IDC 2(TAPE)
40000 IN 0,5(TAPE)
40000 DEC5 0,3
40000 JMP 2B,6
40000 LD4 0,2(5-5)
40000 ENT1 98,5
40000 J4Z 5F,6
40000 LD1 0,2(3-4)
40000 ST4 *+1,6(4-4)
40000 MOVE 1,2(*)
40000 INC2 1,4
40000 JMP 2B,6
40000 DEC2 1
40000 LD4 0,2(0-2)
40000 STA 0,2(0-2)
40000 ENT2 0,4
40000 J4NN *-3,6
40000 DEC1 1
40000 LD2 0,1(4-5)
40000 LDA 0,1(0-2)
40000 J2P 3B,6
40000 JAZ 1B,6
40000 IDC 0(TAPE)
40000 LD1 0,1(2-3)
40000 JOV 0,1
40000 JMP 0,1
40000 ORIG PBUF1-1
40000 CON 0
40000 ALF *.*.
40000 ALF MIX
40000 ALF ASSEM
40000 ALF BLY P
40000 ALF ROGRA
40000 ALF M .*. .
40000 ALF .*. .

0012

2H

3H

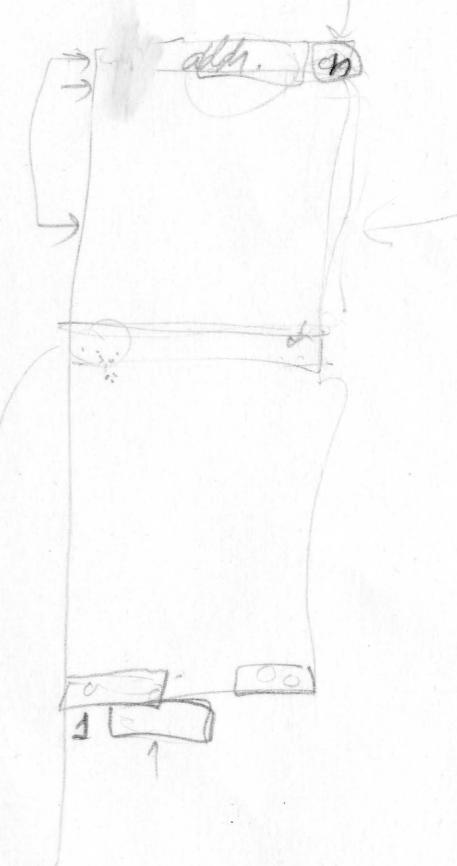
4H

5H

0020

r12 →
r15 →

CH4 →



40 40 40 40 40 0115	ALF
40 40 40 40 40 0116	ALF
40 40 40 40 40 0117	ALF
40 40 40 40 40 0118	ALF
40 40 40 40 40 0119	ALF
40 40 40 40 40 0120	ALF
40 40 40 40 40 0121	ALF
40 40 40 40 40 0122	ALF
40 40 40 40 40 0123	ALF
40 40 40 40 40 0124	ALF
00000000127 0125	CON PBUF2
00000000000 0126	CON 0
0000000101 0127	ORIG PBUF2+24
0151 0152	CON PBUF1
0000000169 0168	ORIG RBUF1+16
0169 0185	CON RBUF2
0000000152 0185	ORIG RBUF2+16
00000000000 0186	CON RBUF1
00000000000 0187	CON 0
00000000000 0188	CON 0
00000000000 0189	CON 0
00000000000 0190	CON 0
00000000000 0191	CON 0
00000000001 0192	CON 1
0193 0203	ORIG *+10
0213 0213	ORIG *+10
0213 0213	*
0213 0213	*
0213 OH	*
OPERATION CODES	
EQU *	
00 15 16 17 00 1827	ORIG TABLE1+0977
000000 00 00 1828	ALF NOP
00 01 04 04 00 2877	ORIG EQUIV+0977
000000 05 01 2878	CON 00,0(4-4)
00 01 04 04 00 1440	ORIG TABLE1+0590
000000 05 01 1441	ALF ADD
00 22 24 02 00 1398	ORIG EQUIV+0590
000000 05 02 2448	CON 01,5(4-4)
00 14 24 13 00 1319	ORIG TABLE1+0548
000000 05 03 2369	ALF SUB
00 04 09 25 00 0954	ORIG EQUIV+0548
000000 05 04 2004	CON 02,5(4-4)
00 15 24 14 00 2005	ORIG TABLE1+0469
000000 00 05 2151	ALF MUL
00 03 08 01 19 1093	ORIG EQUIV+0469
000000 01 05 2152	CON 03,5(4-4)
00 08 13 23 00 1699	ORIG TABLE1+0104
000000 02 05 2749	ALF DIV
00 22 13 01 00 1878	ORIG EQUIV+0104
000000 00 06 2750	CON 04,5(4-4)
00 22 19 01 00 0870	ORIG TABLE1+0251
000000 01 06 0871	ALF NUM
00 22 13 01 27 1921	ORIG EQUIV+0251
000000 02 06 1920	CON 05,0(4-4)
00 22 13 01 27 1550	ORIG TABLE1+0243
000000 02 06 1551	ALF CHAR
00 22 19 01 27 2600	ORIG EQUIV+0243
000000 03 06 2601	CON 05,1(4-4)
00 22 19 01 27 1591	ORIG TABLE1+0849
000000 03 06 1592	ALF HLT
00 22 13 03 00 1466	ORIG EQUIV+0849
000000 02 06 2641	CON 05,2(4-4)
00 22 13 03 00 2642	ORIG TABLE1+1028
000000 02 06 2642	ALF SLA
00 22 13 03 00 1466	ORIG EQUIV+1028
000000 02 06 2642	CON 06,0(4-4)
00 22 13 03 00 1466	ORIG TABLE1+0020
000000 01 06 1921	ALF SRA
00 22 13 01 27 1550	ORIG EQUIV+0020
000000 02 06 1551	CON 06,1(4-4)
00 22 13 01 27 2600	ORIG TABLE1+0700
000000 02 06 2600	ALF SLAX
00 22 13 01 27 2601	ORIG EQUIV+0700
000000 03 06 2641	CON 06,2(4-4)
00 22 13 03 00 1466	ORIG TABLE1+0741
000000 03 06 2642	ALF SRAX
00 22 13 03 00 1466	ORIG EQUIV+0741
000000 03 06 2642	CON 06,3(4-4)
00 22 13 03 00 1466	ORIG TABLE1+0616
00 22 13 03 00 1466	ALF SLC

000000 04 06	1467	ORIG EQUIV+0616
	2516	CON 06,4(4-4)
00 22 19 03 00	2517	ORIG TABLE1+0657
	1507	ALF SRC
000000 05 06	1508	ORIG EQUIV+0657
	2557	CON 06,5(4-4)
00 14 16 25 05	2558	ORIG TABLE1+0482
	1332	ALF MOVE
000000 01 07	1333	ORIG EQUIV+0482
	2382	CON 07,1(4-4)
00 13 04 01 00	2383	ORIG TABLE1+0019
	0869	ALF LDA
000000 05 08	0870	ORIG EQUIV+0019
	1919	CON 08,5(4-4)
00 13 04 31 00	1920	ORIG TABLE1+0128
	0978	ALF LD1
000000 05 09	2028	ORIG EQUIV+0128
	2029	CON 09,5(4-4)
00 13 04 32 00	1821	ORIG TABLE1+0971
	1822	ALF LD2
000000 05 10	2871	ORIG EQUIV+0971
	2872	CON 10,5(4-4)
00 13 04 33 00	1615	ORIG TABLE1+0765
	1616	ALF LD3
000000 05 11	2665	ORIG EQUIV+0765
	2666	CON 11,5(4-4)
00 13 04 34 00	1408	ORIG TABLE1+0558
	1409	ALF LD4
000000 05 12	2458	ORIG EQUIV+0558
	2459	CON 12,5(4-4)
00 13 04 35 00	1202	ORIG TABLE1+0352
	1203	ALF LD5
000000 05 13	2252	ORIG EQUIV+0352
	2253	CON 13,5(4-4)
00 13 04 36 00	0995	ORIG TABLE1+0145
	0996	ALF LD6
000000 05 14	2045	ORIG EQUIV+0145
	2046	CON 14,5(4-4)
00 13 04 27 00	1803	ORIG TABLE1+0953
	1804	ALF LDX
000000 05 15	2853	ORIG EQUIV+0953
	2854	CON 15,5(4-4)
00 13 04 01 15	1154	ORIG TABLE1+0304
	1155	ALF LDAN
000000 05 16	2204	ORIG EQUIV+0304
	2205	CON 16,5(4-4)
00 13 04 31 15	1262	ORIG TABLE1+0412
	1263	ALF LD1N
000000 05 17	2312	ORIG EQUIV+0412
	2313	CON 17,5(4-4)
00 13 04 32 15	1055	ORIG TABLE1+0205
	1056	ALF LD2N
000000 05 18	2105	ORIG EQUIV+0205
	2106	CON 18,5(4-4)
00 13 04 33 15	1899	ORIG TABLE1+1049
	1900	ALF LD3N
000000 05 19	2949	ORIG EQUIV+1049
	2950	CON 19,5(4-4)
00 13 04 34 15	1692	ORIG TABLE1+0842
	1693	ALF LD4N
000000 05 20	2742	ORIG EQUIV+0842
	2743	CON 20,5(4-4)
00 13 04 35 15	1486	ORIG TABLE1+0636
	1487	ALF LD5N
000000 05 21	2536	ORIG EQUIV+0636
	2537	CON 21,5(4-4)
00 13 04 36 15	1279	ORIG TABLE1+0429
	1280	ALF LD6N
000000 05 22	2329	ORIG EQUIV+0429
	2330	CON 22,5(4-4)
00 13 04 27 15	1037	ORIG TABLE1+0187
	1038	ALF LDXN
000000 05 23	2087	ORIG EQUIV+0187
	2088	CON 23,5(4-4)
00 22 23 01 00	1247	ORIG TABLE1+0397
	1248	ALF STA
000000 05 24	2297	ORIG EQUIV+0397
	2298	CON 24,5(4-4)
00 22 23 31 00	1354	ORIG TABLE1+0504
	1355	ALF ST1
		ORIG EQUIV+0504

000000	05	25	2404	CON	25,5(4-4)
00	22	23	32	00	2405 ORIG TABLE1+0298 ALF ST2
000000	05	26	1148	ORIG EQUIV+0298 CON 26,5(4-4)	
00	22	23	33	00	2199 ORIG TABLE1+0092 ALF ST3
000000	05	27	0942	ORIG EQUIV+0092 CON 27,5(4-4)	
000000	05	27	0943	ORIG TABLE1+0935 ALF ST4	
00	22	23	34	00	1992 ORIG EQUIV+0935 CON 28,5(4-4)
000000	05	28	1993	ORIG TABLE1+0729 ALF ST5	
00	22	23	35	00	1785 ORIG EQUIV+0729 CON 29,5(4-4)
000000	05	29	1786	ORIG TABLE1+0522 ALF ST6	
00	22	23	36	00	2835 ORIG EQUIV+0522 CON 30,5(4-4)
000000	05	30	2836	ORIG TABLE1+0280 ALF STX	
00	22	23	27	00	1579 ORIG EQUIV+0280 CON 31,5(4-4)
000000	05	31	1580	ORIG TABLE1+0433 ALF STJ	
00	22	23	11	00	2629 ORIG EQUIV+0433 CON 32,2(4-4)
000000	02	32	1283	ORIG TABLE1+0917 ALF STZ	
00	22	23	29	00	2422 ORIG EQUIV+0917 CON 33,5(4-4)
000000	05	33	1284	ORIG TABLE1+0458 ALF JBUS	
00	11	02	24	22	2333 ORIG EQUIV+0458 CON 34,0(4-4)
000000	00	34	1306	ORIG TABLE1+0786 ALF IOC	
00	09	16	03	00	2359 ORIG EQUIV+0786 CON 35,0(4-4)
000000	00	35	1636	ORIG TABLE1+1048 ALF IN	
00	09	15	00	00	1767 ORIG EQUIV+1048 CON 36,0(4-4)
000000	00	36	1898	ORIG TABLE1+0481 ALF OUT	
00	16	24	23	00	1899 ORIG EQUIV+0481 CON 37,0(4-4)
000000	00	37	1331	ORIG TABLE1+0867 ALF JRRED	
00	11	19	05	04	2381 ORIG EQUIV+0867 CON 38,0(4-4)
000000	00	38	1717	ORIG TABLE1+0310 ALF JMP	
00	11	14	17	00	2767 ORIG EQUIV+0310 CON 39,0(4-4)
000000	00	39	1160	ORIG TABLE1+0203 ALF JSJ	
00	11	22	11	00	1161 ORIG EQUIV+0203 CON 39,1(4-4)
000000	01	39	2210	ORIG TABLE1+0422 ALF JOV	
00	11	16	25	00	2211 ORIG EQUIV+0422 CON 39,2(4-4)
000000	02	39	1053	ORIG TABLE1+0296 ALF JNOV	
00	11	15	16	25	1054 ORIG EQUIV+0296 CON 39,3(4-4)
000000	03	39	1146	ORIG TABLE1+0312 ALF JL	
00	11	13	00	00	1147 ORIG EQUIV+0312 CON 39,4(4-4)
000000	04	39	2196	ORIG TABLE1+0607 ALF JE	
00	11	05	00	00	2197 ORIG EQUIV+0607 CON 39,5(4-4)
000000	05	39	1457	ORIG TABLE1+0271 ALF JG	
00	11	07	00	00	1458 ORIG EQUIV+0271 CON 39,6(4-4)
000000	06	39	2507		
00	11	07	00	00	2508
000000	06	39	1121		
00	11	07	00	00	1122
000000	06	39	2171		

00 11 07 05 00	2172	ORIG TABLE1+0288
	1138	ALF JGE
000000 07 39	2188	ORIG EQUIV+0288
	2189	CON 39,7(4-4)
00 11 15 05 00	1894	ORIG TABLE1+1044
	1895	ALF JNE
000000 08 39	2944	ORIG EQUIV+1044
	2945	CON 39,8(4-4)
00 11 13 05 00	1180	ORIG TABLE1+0330
	1181	ALF JLE
000000 09 39	2230	ORIG EQUIV+0330
	2231	CON 39,9(4-4)
00 11 01 15 00	1133	ORIG TABLE1+0283
	1134	ALF JAN
000000 00 40	2183	ORIG EQUIV+0283
	2184	CON 40,0(4-4)
00 11 31 15 00	1339	ORIG TABLE1+0489
	1340	ALF J1N
000000 00 41	2389	ORIG EQUIV+0489
	2390	CON 41,0(4-4)
00 11 32 15 00	1696	ORIG TABLE1+0846
	1697	ALF J2N
000000 00 42	2746	ORIG EQUIV+0846
	2747	CON 42,0(4-4)
00 11 33 15 00	1003	ORIG TABLE1+0153
	1004	ALF J3N
000000 00 43	2053	ORIG EQUIV+0153
	2054	CON 43,0(4-4)
00 11 34 15 00	1360	ORIG TABLE1+0510
	1361	ALF J4N
000000 00 44	2410	ORIG EQUIV+0510
	2411	CON 44,0(4-4)
00 11 35 15 00	1716	ORIG TABLE1+0866
	1717	ALF J5N
000000 00 45	2766	ORIG EQUIV+0866
	2767	CON 45,0(4-4)
00 11 36 15 00	1024	ORIG TABLE1+0174
	1025	ALF J6N
000000 00 46	2074	ORIG EQUIV+0174
	2075	CON 46,0(4-4)
00 11 27 15 00	0962	ORIG TABLE1+0112
	0963	ALF JXN
000000 00 47	2012	ORIG EQUIV+0112
	2013	CON 47,0(4-4)
00 11 01 29 00	1393	ORIG TABLE1+0543
	1394	ALF JAZ
000000 01 40	2443	ORIG EQUIV+0543
	2444	CON 40,1(4-4)
00 11 31 29 00	1599	ORIG TABLE1+0749
	1600	ALF J1Z
000000 01 41	2649	ORIG EQUIV+0749
	2650	CON 41,1(4-4)
00 11 32 29 00	0906	ORIG TABLE1+0056
	0907	ALF J2Z
000000 01 42	1956	ORIG EQUIV+0056
	1957	CON 42,1(4-4)
00 11 33 29 00	1263	ORIG TABLE1+0413
	1264	ALF J3Z
000000 01 43	2313	ORIG EQUIV+0413
	2314	CON 43,1(4-4)
00 11 34 29 00	1620	ORIG TABLE1+0770
	1621	ALF J4Z
000000 01 44	2670	ORIG EQUIV+0770
	2671	CON 44,1(4-4)
00 11 35 29 00	0927	ORIG TABLE1+0077
	0928	ALF J5Z
000000 01 45	1977	ORIG EQUIV+0077
	1978	CON 45,1(4-4)
00 11 36 29 00	1284	ORIG TABLE1+0434
	1285	ALF J6Z
000000 01 46	2334	ORIG EQUIV+0434
	2335	CON 46,1(4-4)
00 11 27 29 00	1222	ORIG TABLE1+0372
	1223	ALF JXZ
000000 01 47	2272	ORIG EQUIV+0372
	2273	CON 47,1(4-4)
00 11 01 17 00	1770	ORIG TABLE1+0920
	1771	ALF JAP
000000 02 40	2820	ORIG EQUIV+0920
	2821	CON 40,2(4-4)
		ORIG TABLE1+0076

00	11	31	17	00	0926	ALF	J1P
					0927	ORIG	EQUIV+0076
	000000	02	41	1976	CON	41,2(4-4)	
				1977	ORIG	TABLE1+0432	
00	11	32	17	00	1282	ALF	J2P
				1283	ORIG	EQUIV+0432	
	000000	02	42	2332	CON	42,2(4-4)	
				2333	ORIG	TABLE1+0790	
00	11	33	17	00	1640	ALF	J3P
				1641	ORIG	EQUIV+0790	
	000000	02	43	2690	CON	43,2(4-4)	
				2691	ORIG	TABLE1+0097	
00	11	34	17	00	0947	ALF	J4P
				0948	ORIG	EQUIV+0097	
	000000	02	44	1997	CON	44,2(4-4)	
				1998	ORIG	TABLE1+0454	
00	11	35	17	00	1304	ALF	J5P
				1305	ORIG	EQUIV+0454	
	000000	02	45	2354	CON	45,2(4-4)	
				2355	ORIG	TABLE1+0811	
00	11	36	17	00	1661	ALF	J6P
				1662	ORIG	EQUIV+0811	
	000000	02	46	2711	CON	46,2(4-4)	
				2712	ORIG	TABLE1+0748	
00	11	27	17	00	1598	ALF	JXP
				1599	ORIG	EQUIV+0748	
	000000	02	47	2648	CON	47,2(4-4)	
				2649	ORIG	TABLE1+0567	
00	11	01	15	15	1417	ALF	JANN
				1418	ORIG	EQUIV+0567	
	000000	03	40	2467	CON	40,3(4-4)	
				2468	ORIG	TABLE1+0773	
00	11	31	15	15	1623	ALF	J1NN
				1624	ORIG	EQUIV+0773	
	000000	03	41	2673	CON	41,3(4-4)	
				2674	ORIG	TABLE1+0080	
00	11	32	15	15	0930	ALF	J2NN
				0931	ORIG	EQUIV+0080	
	000000	03	42	1980	CON	42,3(4-4)	
				1981	ORIG	TABLE1+0437	
00	11	33	15	15	1287	ALF	J3NN
				1288	ORIG	EQUIV+0437	
	000000	03	43	2337	CON	43,3(4-4)	
				2338	ORIG	TABLE1+0794	
00	11	34	15	15	1644	ALF	J4NN
				1645	ORIG	EQUIV+0794	
	000000	03	44	2694	CON	44,3(4-4)	
				2695	ORIG	TABLE1+0101	
00	11	35	15	15	0951	ALF	J5NN
				0952	ORIG	EQUIV+0101	
	000000	03	45	2001	CON	45,3(4-4)	
				2002	ORIG	TABLE1+0457	
00	11	36	15	15	1307	ALF	J6NN
				1308	ORIG	EQUIV+0457	
	000000	03	46	2357	CON	46,3(4-4)	
				2358	ORIG	TABLE1+0396	
00	11	27	15	15	1246	ALF	JXNN
				1247	ORIG	EQUIV+0396	
	000000	03	47	2296	CON	47,3(4-4)	
				2297	ORIG	TABLE1+0202	
00	11	01	15	29	1052	ALF	JANZ
				1053	ORIG	EQUIV+0202	
	000000	04	40	2102	CON	40,4(4-4)	
				2103	ORIG	TABLE1+0409	
00	11	31	15	29	1259	ALF	J1NZ
				1260	ORIG	EQUIV+0409	
	000000	04	41	2309	CON	41,4(4-4)	
				2310	ORIG	TABLE1+0764	
00	11	32	15	29	1614	ALF	J2NZ
				1615	ORIG	EQUIV+0764	
	000000	04	42	2664	CON	42,4(4-4)	
				2665	ORIG	TABLE1+0072	
00	11	33	15	29	0922	ALF	J3NZ
				0923	ORIG	EQUIV+0072	
	000000	04	43	1972	CON	43,4(4-4)	
				1973	ORIG	TABLE1+0428	
00	11	34	15	29	1278	ALF	J4NZ
				1279	ORIG	EQUIV+0428	
	000000	04	44	2328	CON	44,4(4-4)	
				2329	ORIG	TABLE1+0785	

00 11 35 15 29	1635	ALF J5NZ
000000 04 45	1636	ORIG EQUIV+0785
00 11 36 15 29	2685	CON 45,4(4-4)
000000 04 46	2686	ORIG TABLE1+0093
00 11 27 15 29	0943	ALF J6NZ
000000 04 46	0944	ORIG EQUIV+0093
00 11 27 15 29	1993	CON 46,4(4-4)
000000 04 47	1994	ORIG TABLE1+0031
00 11 31 15 17	0881	ALF JXNZ
000000 04 47	0882	ORIG EQUIV+0031
00 11 01 15 17	1931	CON 47,4(4-4)
000000 05 40	1932	ORIG TABLE1+0815
00 11 31 15 17	1665	ALF JANP
000000 05 40	1666	ORIG EQUIV+0815
00 11 32 15 17	2715	CON 40,5(4-4)
000000 05 41	2716	ORIG TABLE1+1021
00 11 33 15 17	1871	ALF J1NP
000000 05 41	1872	ORIG EQUIV+1021
00 11 32 15 17	2921	CON 41,5(4-4)
000000 05 42	2922	ORIG TABLE1+0328
00 11 33 15 17	1178	ALF J2NP
000000 05 42	1179	ORIG EQUIV+0328
00 11 34 15 17	2228	CON 42,5(4-4)
000000 05 43	2229	ORIG TABLE1+0685
00 11 35 15 17	1535	ALF J3NP
000000 05 43	1536	ORIG EQUIV+0685
00 11 34 15 17	2585	CON 43,5(4-4)
000000 05 44	2586	ORIG TABLE1+1042
00 11 35 15 17	1892	ALF J4NP
000000 05 44	1893	ORIG EQUIV+1042
00 11 35 15 17	2942	CON 44,5(4-4)
000000 05 45	2943	ORIG TABLE1+0349
00 11 36 15 17	1199	ALF J5NP
000000 05 45	1200	ORIG EQUIV+0349
00 11 36 15 17	2249	CON 45,5(4-4)
000000 05 45	2250	ORIG TABLE1+0706
00 11 36 15 17	1556	ALF J6NP
000000 05 46	1557	ORIG EQUIV+0706
00 11 27 15 17	2606	CON 46,5(4-4)
000000 05 46	2607	ORIG TABLE1+0644
00 11 27 15 17	1494	ALF JXNP
000000 05 47	1495	ORIG EQUIV+0644
00 09 15 03 01	0878	CON 47,5(4-4)
000000 00 48	0879	ORIG TABLE1+0028
00 04 05 03 01	1567	ALF INCA
000000 01 48	1568	ORIG EQUIV+0028
00 05 15 23 01	2617	CON 48,0(4-4)
000000 02 48	2618	ORIG TABLE1+0717
00 05 15 23 01	0996	ALF DECA
000000 02 48	0997	ORIG EQUIV+0717
00 05 15 15 01	1597	CON 48,1(4-4)
000000 03 48	1598	ORIG TABLE1+0146
00 09 15 03 31	1447	ALF ENTA
000000 03 48	1448	ORIG EQUIV+0146
00 04 05 03 31	2497	CON 48,2(4-4)
000000 00 49	2498	ORIG TABLE1+0747
00 04 05 03 31	1085	ALF ENNA
000000 01 49	1086	ORIG EQUIV+0747
00 05 15 23 31	2135	CON 48,3(4-4)
000000 02 49	2136	ORIG TABLE1+0597
00 05 15 23 31	1564	ALF INC1
000000 02 49	1565	ORIG EQUIV+0597
00 05 15 15 31	2614	CON 49,0(4-4)
000000 03 49	2615	ORIG TABLE1+0235
00 05 15 15 31	1116	ALF DEC1
000000 03 49	1117	ORIG EQUIV+0235
00 09 15 03 32	2166	CON 49,1(4-4)
000000 00 50	2167	ORIG TABLE1+0714
00 04 05 03 32	1045	ALF ENT1
000000 00 50	1046	ORIG EQUIV+0714
00 04 05 03 32	2095	CON 49,2(4-4)
00 04 05 03 32	2096	ORIG TABLE1+0266
00 04 05 03 32	1734	ALF ENN1

000000 01 50	1735 2784 2785 1163 1164 2213 2214 1764 1765 2814 2815 1694 1695 2744 2745 1333 1334 2383 2384 1812 1813 2862 2863 1363 1364 2413 2414 1293 1294 2343 2344 0932 0933 1982 1983 1411 1412 2461 2462 0961 0962 2011 2012 0892 0893 1942 1943 1581 1582 2631 2632 1010 1011 2060 2061 1611 1612 2661 2662 1541 1542 2591 2592 1179 1180 2229 2230 1659 1660 2709 2710 1210 1211 2260 2261 0950 0951 2000 2001 1639 1640	ORIG EQUIV+0884 CON 50,1(4-4) ORIG TABLE1+0313 ALF ENT2 ORIG EQUIV+0313 CON 50,2(4-4) ORIG TABLE1+0914 ALF ENN2 ORIG EQUIV+0914 CON 50,3(4-4) ORIG TABLE1+0844 ALF INC3 ORIG EQUIV+0844 CON 51,0(4-4) ORIG TABLE1+0483 ALF DEC3 ORIG EQUIV+0483 CON 51,1(4-4) ORIG TABLE1+0962 ALF ENT3 ORIG EQUIV+0962 CON 51,2(4-4) ORIG TABLE1+0513 ALF ENN3 ORIG EQUIV+0513 CON 51,3(4-4) ORIG TABLE1+0443 ALF INC4 ORIG EQUIV+0443 CON 52,0(4-4) ORIG TABLE1+0082 ALF DEC4 ORIG EQUIV+0082 CON 52,1(4-4) ORIG TABLE1+0561 ALF ENT4 ORIG EQUIV+0561 CON 52,2(4-4) ORIG TABLE1+0111 ALF ENN4 ORIG EQUIV+0111 CON 52,3(4-4) ORIG TABLE1+0042 ALF INC5 ORIG EQUIV+0042 CON 53,0(4-4) ORIG TABLE1+0731 ALF DEC5 ORIG EQUIV+0731 CON 53,1(4-4) ORIG TABLE1+0160 ALF ENT5 ORIG EQUIV+0160 CON 53,2(4-4) ORIG TABLE1+0761 ALF ENN5 ORIG EQUIV+0761 CON 53,3(4-4) ORIG TABLE1+0691 ALF INC6 ORIG EQUIV+0691 CON 54,0(4-4) ORIG TABLE1+0329 ALF DEC6 ORIG EQUIV+0329 CON 54,1(4-4) ORIG TABLE1+0809 ALF ENT6 ORIG EQUIV+0809 CON 54,2(4-4) ORIG TABLE1+0360 ALF ENN6 ORIG EQUIV+0360 CON 54,3(4-4) ORIG TABLE1+0100 ALF INCX ORIG EQUIV+0100 CON 55,0(4-4) ORIG TABLE1+0789 ALF DECX ORIG EQUIV+0789
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000000 01 55	2689	CON 55,1(4-4)
	2690	ORIG TABLE1+0218
00 05 15 23 27	1068	ALF ENTX
	1069	ORIG EQUIV+0218
000000 02 55	2118	CON 55,2(4-4)
	2119	ORIG TABLE1+0820
00 05 15 15 27	1670	ALF ENNX
	1671	ORIG EQUIV+0820
000000 03 55	2720	CON 55,3(4-4)
	2721	ORIG TABLE1+0001
00 03 14 17 01	0851	ALF CMPA
	0852	ORIG EQUIV+0001
000000 05 56	1901	CON 56,5(4-4)
	1902	ORIG TABLE1+0569
00 03 14 17 31	1419	ALF CMP1
	1420	ORIG EQUIV+0569
000000 05 57	2469	CON 57,5(4-4)
	2470	ORIG TABLE1+0168
00 03 14 17 32	1018	ALF CMP2
	1019	ORIG EQUIV+0168
000000 05 58	2068	CON 58,5(4-4)
	2069	ORIG TABLE1+0817
00 03 14 17 33	1667	ALF CMP3
	1668	ORIG EQUIV+0817
000000 05 59	2717	CON 59,5(4-4)
	2718	ORIG TABLE1+0416
00 03 14 17 34	1266	ALF CMP4
	1267	ORIG EQUIV+0416
000000 05 60	2316	CON 60,5(4-4)
	2317	ORIG TABLE1+0015
00 03 14 17 35	0865	ALF CMP5
	0866	ORIG EQUIV+0015
000000 05 61	1915	CON 61,5(4-4)
	1916	ORIG TABLE1+0664
00 03 14 17 36	1514	ALF CMP6
	1515	ORIG EQUIV+0664
000000 05 62	2564	CON 62,5(4-4)
	2565	ORIG TABLE1+0073
00 03 14 17 27	0923	ALF CMPX
	0924	ORIG EQUIV+0073
000000 05 63	1973	CON 63,5(4-4)
	1974	ORIG TABLE1+0880
00 16 19 09 07	1730	ALF ORIG
	1731	ORIG EQUIV+0880
- 000000 00 02	2780	CON -2,0(4-4)
	2781	ORIG TABLE1+0361
00 05 18 24 00	1211	ALF EQU
	1212	ORIG EQUIV+0361
- 000000 00 03	2261	CON -3,0(4-4)
	2262	ORIG TABLE1+0479
00 03 16 15 00	1329	ALF CON
	1330	ORIG EQUIV+0479
- 000000 00 04	2379	CON -4,0(4-4)
	2380	ORIG TABLE1+0239
00 01 13 06 00	1089	ALF ALF
	1090	ORIG EQUIV+0239
- 000000 00 05	2139	CON -5,0(4-4)
	2140	ORIG TABLE1+0269
00 05 15 04 00	1119	ALF END
	1120	ORIG EQUIV+0269
- 000000 00 06	2169	CON -6,0(4-4)
	2170	ORIG OB
	0213	*
	0213	**
	0213	***
	0213	SUBROUTINES
	0213	*
	0213	*
	0213	*
/- 0001 00 02 32	0213	INSTOUT TAPE OUTPUT SUBROUTINES
0214 00 01 34	0214	STJ 9F
/- 0001 00 05 14	0215	JBUS *(TAPE)
/- 0001 00 05 63	0216	LD6 PT1
/- 0001 00 07 39	0217	CMPX MAXLOC
/- 0001 00 05 63	0218	JGE 1F
/- 0001 00 05 39	0219	CMPX EASYLOC
/- 0001 00 00 39	0220	JE 2F
/- 0001 00 05 31	0221	JMP SETN
0000 06 04 31	0222	STX BASELOC
0100 00 00 55	0223	STX TBUF,6(0-4)
/ 0216 00 05 31	0224	INCX BYTESIZE
0100 00 01 55	0225	STX MAXLOC
/- 0001 00 05 30	0226	DECX BYTESIZE
0001 00 00 54	0227	ST6 BASEINDEX
		INC6 1

/* 0001 00 02 32 0213
 0214 00 01 34 0214
 /*- 0001 00 05 14 0215
 /*- 0001 00 05 63 0216
 /*- 0001 00 07 39 0217
 /*- 0001 00 05 63 0218
 /*- 0001 00 05 39 0219
 /*- 0001 00 00 39 0220 0217 1H
 /*- 0001 00 05 31 0221
 0000 06 04 31 0222
 0100 00 00 55 0223
 / 0216 00 05 31 0224
 0100 00 01 55 0225
 /*- 0001 00 05 30 0226
 0001 00 00 54 0227

/-	0001	00	00	55	0228	0219	2H	INCX 1
/-	0218	00	05	31	0229			STX EASYLOC
/-	0001	00	05	08	0230			LDA INST
/-	0000	06	05	24	0231			STA TBUF,6
/-	0001	00	00	54	0232			INC6 1
/-	0001	00	05	13	0233			LD5 PT2
/-	0001	00	00	39	0234			JMP 3F
/	0213	00	02	32	0235		FIXUP	STJ 9F
/	0236	00	01	34	0236			JBUS *(TAPE)
/	0233	00	05	13	0237			LD5 PT2
/	0001	05	05	24	0238			STA TBUF+1,5
/	0001	00	01	53	0239			DEC5 1
/	0215	00	05	14	0240			LD6 PT1
/-	0237	00	05	62	0241	0234	3H SWITCH	CMP6 PT2
/-	0001	00	04	39	0242			JL 4F
/	0220	00	00	39	0243			JMP SETN
/	0001	05	05	33	0244			STZ TBUF+1,5
/	0000	06	05	33	0245			STZ TBUF,6
/	0097	00	02	53	0246			ENT5 97
/	0098	00	00	16	0247			LDAN TBUF+98
/	0000	05	05	02	0248			SUB TBUF,5
/	0001	00	01	53	0249			DEC5 1
/	0248	00	03	45	0250			J5NN *-2
/	0099	00	05	24	0251			STA TBUF+99
/	0000	00	01	37	0252			SOUT TBUF(TAPE)
/	0229	00	05	22	0253			STS5 EASYLOC
/	0097	00	02	53	0254			ENT5 97
/	0000	00	02	54	0255			ENT6 0
/	0240	00	05	30	0256	0242	4H	ST6 PT1
/	0241	00	05	29	0257			ST5 PT2
/-	0258	00	00	39	0258	0235		JMP *
/	0001	00	02	32	0259	0243	SETN	STJ 1F
/	0253	00	05	08	0260			LDA EASYLOC
/	0259	00	00	40	0261			JAN 1F
/	0221	00	05	02	0262			SUB BASELOC
/	0226	00	05	09	0263			LD1 BASEINDEX
/	0000	01	45	24	0264			STA TBUF,1(5-5)
-	0265	00	00	39	0265			JMP *
-	00000000001	00	00	0266	0260		EASYLOC	
-	00000000044	00	00	0267	0256		PT1	
-	00000000044	00	00	0268	0257		PT2	
/	0278	00	00	39	0269	0269	1H EASYLOC	CON. -1
/	0001	00	02	32	0270			CON. 44
/	0000	01	18	37	0271			CON. 44
/	0024	01	05	09	0272			*
/	0270	00	05	25	0273			CARD AND PRINTER SUBROUTINES
/-	0001	01	24	07	0274			PRINTOUT
/-	0001	00	05	08	0275			STJ 1F
/	0000	00	01	05	0276			LD1 PBUF
-	0020	01	21	31	0277			OUT 0,1(PRINTER)
/	0278	00	00	39	0278			LD1 24,1
/	00000000101	00	00	0279	0273		ST1 PBUF	
/-	0001	00	02	32	0280			MOVE -1,1(24)
/-	0001	00	05	09	0281			LDA LCTR
/	0000	01	16	36	0282			CHAR STX -20,1(2-5)
/	0016	01	05	10	0283			JMP *
/	0281	00	05	26	0284			CCON PBUF1
/	0279	00	05	09	0285			STJ 1F
/	0007	00	00	49	0286			LD1 RBUF
/	0000	02	16	07	0287			IN 0,1(READER)
/	0288	00	00	39	0288			LD2 16,1
/	00000000152	00	00	0289	0284		ST2 RBUF	
/-	0001	00	02	32	0290			LD1 PBUF
/	0279	00	05	10	0291			INC1 7
/	0000	02	11	15	0292			MOVE 0,2(16)
/	0000	02	20	31	0293			JMP *
/	0000	02	09	24	0294			CCON RBUF1
/-	0001	00	05	08	0295			STJ 1F
/	0001	00	00	48	0296			LD2 PBUF
/	0295	00	05	24	0297			DX 0,2(1-3)
/	0298	00	00	39	0298			STX 0,2(2-4)
/-	0001	00	02	32	0299			STA 0,2(1-1)
/	0279	00	05	09	0300			LDA ERRCOUNT
/-	0001	00	05	08	0301			INCA 1
/	0305	00	01	40	0302			STA ERRCOUNT
/	0047	00	02	48	0303			JMP *
/	0000	01	45	24	0304			STJ 9F
/	0230	00	05	15	0305			LD1 PBUF
/	0310	00	03	47	0306			LDA UNDFLAG
/	0045	00	02	48	0307			JAZ *+3
/								ENTA 47
/								STA 0,1(5-5)
/								LDX INST
/								JXNN *+4
/								ENTA 45

JOV *+1

/	0001 01 09 24 0308		STA 1,1(1-1)
/	0305 00 13 15 0309		LDX INST(1-5)
	0005 00 02 53 0310		ENT5 5
	0001 01 02 54 0311		ENT6 1,1
	0005 00 03 52 0312		ENN4 5
	0005 00 02 51 0313		ENT3 5
	0000 00 02 48 0314		ENTA 0
	0001 00 02 06 0315		SLAX 1
	0001 00 01 52 0316		INC4 1
	0002 00 00 51 0317		DEC3 2
	0001 00 01 53 0318		DEC5 1
0192	04 05 09 0319		LD1 BOUND+5,4
0315	00 01 41 0320		J1Z 2B
/-	0000 00 01 05 0321		CHAR
/-	0001 00 03 43 0322		J3NN 3F
/-	0001 00 05 31 0323		STX TEMP
/-	0005 00 03 06 0324		SRAX 5
/-	0005 00 00 51 0325		INC3 5
/-	0001 00 00 39 0326		JMP EDIT1
/	0000 00 05 51 0328		ENT3 0
/	0323 00 00 15 0329	0322	LDX TEMP
/	0326 00 00 39 0329	3H	JMP EDIT1
/	0309 00 13 15 0330		LDX INST(1-5)
	0005 04 02 06 0331		SLAX 5,4
0313	00 04 44 0332		J4NZ 1B
/-	0333 00 02 39 0333	0299	JMP *
/-	0001 00 02 32 0334	0329	STJ 1F
0339	00 02 45 0335		J5P *+4
	0001 00 00 54 0336		INC6 1
	0005 00 00 53 0337		INC5 5
0336	00 05 45 0338		J5NP *-2
	0000 03 02 06 0339		SLAX 0,3
	0000 00 02 48 0340		ENTA 0
	0000 05 02 06 0341		SLAX 0,5
	0000 06 05 01 0342		ADD 0,6
	0000 06 05 24 0343		STA 0,6
0346	00 01 47 0344		JXZ *+2
	0001 06 05 31 0345		STX 1,6
-	0005 03 00 53 0346		INC5 -5,3
	0347 00 00 39 0347	0334	JMP *
*/-	0001 00 02 32 0348	1H	SERCH SYMBOL TABLE SUBROUTINE
/-	0001 00 05 24 0349		STJ 9F
/-	0001 00 05 31 0350		STA TEMP A
/-	0350 00 05 01 0351		STX TEMP X
/-	0001 00 05 03 0352		ADD TEMP X
/-	0005 00 02 06 0353		MUL PHI
/-	0001 00 05 03 0354		SLAX 5
/	0328 00 05 24 0355		MUL =SIZE=
/	0355 00 05 10 0356		STA TEMP
/	0001 00 02 51 0357		LD2 TEMP
/	0351 00 05 15 0358		ENT3 1
/	0850 02 05 08 0359		LDX TEMP X
/	0349 00 13 56 0360		LDA TABLE1,2
/	0001 00 08 39 0361	0361	CMPA TEMP A(1-5)
/	2950 02 05 63 0362		JNE 2F
/	0001 00 08 39 0363		CMPX TABLE2,2
/	1900 02 05 15 0364		JNE 3F
/	0001 00 00 40 0365		LDX EQUIV,2
/	0348 00 00 39 0366		JAN 8F
/	0001 00 01 40 0367	0363	JMP 9F
	0001 00 01 50 0368	2H	JAZ 4F
	0359 00 03 42 0369	3H	DEC2 1
	0001 00 01 51 0370		J2NN 1B
1049	00 02 50 0371		DEC3 1
0359	00 01 43 0372		ENT2 SIZE-1
	0022 00 02 48 0373		J3Z 1B
	0290 00 00 39 0374		ENTA 22
/-	0001 00 00 39 0375		JMP ERROR
/	0360 00 05 16 0376	0367	JMP FINISHLOC
0850	02 05 24 0377		LDAN TEMP A
2950	02 05 31 0378		STA TABLE1,2
	0001 00 03 55 0379		STX TABLE2,2
/	0275 00 05 08 0380	0365	ENNX 1
1900	02 05 24 0381		LDA LCTR
0001	00 02 49 0382		STA EQUIV,2
0383	00 00 39 0383	0366	ENT1 1
	6180339890 0384	0352	JMP *
	0289 00 05 14 0385		CON 618033989//1000000000
0003	00 00 54 0386		SCANNING SUBROUTINES
			ADDR LD6 RBUF
			INC6 3

/ - 0004 00 03 53 0387		ADDR1	ENN5 4
/ - 0001 00 02 32 0388			STJ ADDREX1
/ - 0301 00 05 33 0389			STZ UNDFLAG
/ - 0001 00 05 33 0390			STZ UNDOP
/ - 0001 00 05 33 0391			STZ PAREN
/ - 0001 00 05 33 0392			STZ OP
/ - 0005 00 02 48 0393			STA ACCUM
/ - 0001 00 05 24 0394			ENTA 5
/ - 0000 00 02 49 0395			STA FFIELD
/ - 0000 00 02 50 0396			ENT1 0
/ - 0005 00 02 51 0397			ENT2 0
/ - 0000 06 05 52 0399			ENT3 5
/ - 0005 05 02 15 0400			ENT4 0
/ - 0000 00 02 06 0401			LDX 0,6
/ - 0407 00 00 48 0402			SLAX 5,5
/ - 0001 00 00 45 0403			ENTA 0
/ - 0001 00 00 54 0404			J5N *+4
/ - 0000 06 05 15 0405			INC6 1
/ - 0005 00 03 53 0406			LDX 0,6
/ - 0001 00 00 53 0407			ENN5 5
/ - 0001 00 00 44 0408			INC5 1
/ - 0001 00 09 63 0409			J4N 8F
/ - 0001 00 04 39 0410			CMPX =30(1-1)=(1-1)
/ - 0001 00 09 63 0411			JL 1F
/ - 0001 00 04 39 0412			CMPX =40(1-1)=(1-1)
/ - 0001 00 09 63 0413			JL 7F
/ - 0001 00 05 39 0414			CMPX =48(1-1)=(1-1)
/ - 0410 00 02 44 0415			JE 3F
/ - 0408 00 04 40 0416			J4P 1F
/ - 0001 00 09 63 0417			JANZ 8F
/ - 0001 00 03 52 0418			CMPX =46(1-1)=(1-1)
/ - 0422 00 05 39 0419			ENN4 1
/ - 0001 00 00 31 0420			JE *+3
/ - 0001 00 00 39 0421			STX NEXTCHAR
/ - 0425 00 12 31 0422			JMP NOOPERAND
/ - 0425 00 05 15 0423			STX *+3(1-4)
/ - 0403 00 00 39 0424			LDX **2
0000 00 00 00 00 0425			JMP 2B
0418 00 02 44 0426	0414	3H	CON 0
/ - 0001 00 02 52 0427	0415	1H	J4P 5B
/ - 0001 00 09 63 0428	0416	8H	ENT4 1
0416 00 05 39 0429	0412	7H	CMPX =0=(1-1)
0001 00 02 50 0430			JE 4B
0001 00 02 06 0431			ENT2 1
0001 00 01 51 0432			SLAX 1
0403 00 04 43 0433			DEC3 1
/ - 0356 00 05 24 0434			J3NZ 2B
/ - 0403 00 00 39 0435			STA TEMP
/ - 0420 00 05 31 0436			JMP 2B
0000 00 02 55 0437			STX NEXTCHAR
/ - 0001 00 00 43 0438			ENTX 0
/ - 0000 03 02 06 0439			J3N 1F
/ - 0001 00 04 44 0440			SLAX 0,3
/ - 0001 00 01 42 0441			J4NZ 2F
/ - 0434 00 05 24 0442			J2Z 7F
/ - 0442 00 09 11 0443			STA TEMP
0030 00 01 51 0444			LD3 TEMP(1-1)
/ - 0001 00 00 43 0445			DEC3 30
/ - 0001 00 21 56 0446			J3N 5F
/ - 0001 00 05 39 0447			CMPA 6F(2-5)
/ - 0001 00 21 56 0448			JE 4F
/ - 0445 00 08 39 0449			CMPA 9F(2-5)
0203 03 05 08 0450			JNE 5F
/ - 0001 00 00 39 0451			LDA BTABLE,3
/ - 30 06 00 00 00 0452	0446	6H	JMP OPERAND
/ - 30 02 00 00 00 0453	0448	9H	ALF OF
/ - 0449 00 04 40 0454	0440	2H	ALF OB
/ - 0380 00 05 08 0455			JANZ 5F
/ - 0451 00 00 39 0456			LDA LCTR
/ - 0001 00 05 59 0457	0438	1H	JMP OPERAND
0461 00 07 39 0458			CMP3 =-5=
0013 00 02 48 0459			JGE *+3
/ - 0001 00 00 39 0460			ENTA 13
0010 03 04 06 0461			JMP ADDRERROR
/ - 0443 00 05 08 0462			SLC 10,3
/ - 0441 00 01 42 0463			LDA TEMP
/ - 0348 00 00 39 0464	0454	5H	J2Z 7F
/ - 0462 00 05 31 0465			JMP SERCH
/ - 0465 00 05 08 0466			STX TEMP
/ - 0456 00 00 39 0467			LDA TEMP
			JMP OPERAND

/ 0005 03 03 06 0468	0463	7H	SRAX	5,3				
/ 0000 00 00 05 0469		NUM	JMP	OPERAND				
/ 0467 00 00 39 0470	0447	4H	LDA	FTABLE,3				
/ 0193 03 05 08 0471	0447		LLDX	LCTR				
/ 0455 00 05 15 0472			STX	FTABLE,3				
/ 0193 03 05 31 0473			ENT1	1				
/ 0001 00 02 49 0474			JMP	OPERAND				
/ 0470 00 00 39 0475	0421	NOOPERAND	LD2	OP				
/ 0392 00 05 10 0476	0421	MISOPERAND	J2NN	1F,2				
/ 0001 02 03 42 0477	0421	ADDRERROR	ENTA	1				
/ 0290 00 00 39 0479	0460		JMP	ERROR				
/ 0390 00 05 08 0480			LDA	UNDOP				
/ 0330 00 02 24 0481			STA	INST(0-2)				
/ - 0001 00 00 39 0482			JMP	ADDREX				
/ - 0001 00 00 39 0483	0477	1H	JMP	EXAMINE				
/ - 0001 00 09 63 0484			JMP	RPREN				
/ - 0001 00 09 63 0485			CMPX	1F(1-1)				
/ 0478 00 08 39 0486			JNE	MISOPERAND				
/ 0000 00 02 49 0487			ENT1	0				
/ - 0001 00 00 39 0488			JMP	SETOP				
/ - 47 00 00 00 00 0489	0485	1H	ALF	/				
/ - 0001 00 05 24 0490	0475	OPERAND	STA	VALUE				
/ - 0476 00 05 10 0491			LD2	OP				
/ - 0001 00 01 41 0492			J1Z	1F				
/ - 0480 00 05 24 0493			STA	UNDOP				
/ - 0001 00 01 42 0494			J2Z	LOAD1				
/ 0024 00 02 48 0495		FREFERROR	ENTA	24				
/ - 0479 00 00 39 0496			JMP	ADDRERROR				
/ - 0001 02 00 39 0497	0492	1H	JMP	1F,2				
/ - 0001 00 00 39 0498			JMP	LPREN				
/ - 0001 00 00 39 0499			JMP	COMMA				
/ - 0001 00 00 39 0500			JMP	FDIV				
/ - 0001 00 00 39 0501			JMP	MUL				
/ - 0001 00 00 39 0502			JMP	MINUS				
/ - 0001 00 00 39 0503			JMP	ADD				
/ - 0001 00 00 39 0504	0497	1H	JMP	LOAD				
/ - 0001 00 00 39 0505			JMP	EXTOPERAND				
/ - 0393 00 05 08 0506			LDA	ACCUM				
/ 0000 00 02 55 0507			ENTX	0				
/ - 0001 00 00 39 0508			JMP	1F				
/ - 0391 00 05 10 0509	0502	MINUS	LD2	PAREN				
/ - 0001 00 04 42 0510			J2NZ	DASH				
/ - 0506 00 05 08 0511			LDA	ACCUM				
/ - 0490 00 05 02 0512			SUB	VALUE				
/ - 0001 00 00 39 0513			JMP	2F				
/ - 0511 00 05 03 0514	0501	MUL	MUL	ACCUM				
/ 0005 00 02 06 0515			SLAX	5				
/ - 0513 00 00 39 0516			JMP	2F				
/ - 0514 00 05 08 0517	0500	FDIV	LDA	ACCUM				
/ 0005 00 03 06 0518			SRAX	5				
/ - 0512 00 05 04 0519	0508	1H	DIV	VALUE				
/ - 0516 00 00 39 0520			JMP	2F				
/ - 0517 00 05 01 0521	0503	ADD	ADD	ACCUM				
/ - 0389 00 05 09 0522	0520	2H	LD1	UNDFLAG				
/ - 0504 00 01 41 0523		3H	J1Z	LOAD				
/ - 0495 00 00 39 0524			JMP	FREFERROR				
/ - 0522 00 05 25 0525	0494	LOAD1	ST1	UNDFLAG				
/ - 0001 00 05 09 0526			LD1	CONFLAG				
/ - 0523 00 00 39 0527			JMP	3B				
/ 0001 00 02 55 0528	0498	LPREN	ENTX	1				
/ - 0509 00 05 31 0529			STX	PAREN				
/ - 0395 00 05 24 0530			STA	FFIELD				
/ - 0483 00 00 39 0531			JMP	EXAMINE				
/ - 0530 00 05 08 0532	0510	DASH	LDA	FFIELD				
/ - 0001 00 05 03 0533			MUL	=8=				
/ - 0005 00 02 06 0534			SLAX	5				
/ - 0519 00 05 01 0535			ADD	VALUE				
/ - 0530 00 00 39 0536			JMP	2B				
/ - 0529 00 05 33 0537	0484	RPREN	STZ	PAREN				
/ - 0526 00 05 10 0538			LD2	CONFLAG				
/ - 0531 00 04 42 0539			J2NZ	EXAMINE				
/ - 0532 00 05 08 0540			LDA	FFIELD				
/ - 0481 00 36 24 0541			STA	INST(4-4)				
/ - 0539 00 00 39 0542			JMP	EXAMINE				
/ - 0541 00 27 24 0543	0499	COMMA	STA	INST(3-3)				
/ - 0542 00 00 39 0544			JMP	EXAMINE				
/ - 0521 00 05 24 0545	0523	LOAD	STA	ACCUM				
/ - 0544 00 03 39 0546			JNOV	EXAMINE				
/ - 0025 00 02 48 0547			ENTA	25				
/ - 0479 00 00 39 0548			JMP	ADDRERROR				

0620 00 01 40 0624			JAZ FINLINE
0002 02 21 08 0625			LDA 2,2(2-5)
/- 0620 00 01 40 0626			JAZ FINLINE
/- 0001 00 05 33 0627			STZ FIX1
/- 0000 02 05 08 0628			LDA 0,2
/- 0001 00 01 40 0629			JAZ PROCESSOP
/- 0001 00 21 56 0630			CMPA 1F(2-5)
/- 0001 00 05 39 0631			JE 2F
0001 02 05 15 0632			LDX 1,2
0000 00 02 49 0633			ENT1 0
0348 00 00 39 0634			JMP SERCH
/- 0001 00 00 50 0635			INC2 1
/- 0001 00 04 41 0636			J1NZ 4F
0004 00 02 48 0637			ENTA 4
0290 00 00 39 0638			JMP ERROR
/- 0629 00 00 39 0639			JMP PROCESSOP
/- 30 08 00 00 00 0640	0630	1H	ALF 0H
0000 02 09 10 0641	0631	2H	LD2 0,2(1-1)
0030 00 01 50 0642			DEC2 30
0632 00 00 42 0643			J2N 3B
0010 00 01 50 0644			DEC2 10
0632 00 03 42 0645			J2NN 3B
- 0203 02 05 15 0646			LDX FTABLE+10,2
- 0001 00 02 48 0647			ENTA -1
- 0203 02 05 24 0648			STA FTABLE+10,2
/- 0627 00 05 26 0649	0636	4H	ST2 FIX1
/- 0472 00 05 24 0650			LDA LCTR
/- 0001 00 00 55 0651			STA FIX2
/- 0001 00 05 31 0652			INCX 1
0289 00 05 10 0653	0639		STX FIX3
0002 02 21 08 0654			LD2 RBUF
0000 00 02 55 0655			LDA 2,2(2-5)
0348 00 00 39 0656			ENTX 0
0188 00 02 49 0657			JMP SERCH
/- 0001 00 03 47 0658			ENT1 BOUND+1
/- 0466 00 05 31 0660			JXNN 1F
/- 0575 00 05 31 0661			STX TEMP
/- 0603 00 05 33 0662			STX CONFLAG
/- 0661 00 05 11 0663			STZ INST
/- 0671 03 00 39 0664			LD3 CONFLAG
/- 0001 00 00 39 0665			JMP *+7,3
/- 0001 00 00 39 0666			JMP END
/- 0001 00 00 39 0667			JMP ALF
/- 0001 00 00 39 0668			JMP CON
/- 0001 00 00 39 0669			JMP EQU
0850 02 05 33 0670			JMP ORIG
0016 00 02 48 0671			STZ TABLE1,2
0290 00 00 39 0672			ENTA 16
0000 00 02 55 0673			JMP ERROR
/- 0662 00 05 31 0674	0659	1H	ENTX 0
/- 0001 00 04 07 0675			STX INST
/- 0663 00 05 33 0676			MOVE INSTBOUND(4)
/- 0385 00 00 39 0677			STZ CONFLAG
/- 0299 00 00 39 0678			JMP ADDR
/- 0650 00 05 15 0679			JMP EDIT
/- 0213 00 00 39 0680			LDX LCTR
/- 0679 00 05 08 0681			JMP INSTOUT
/- 0001 00 00 48 0682			LDA LCTR
/- 0681 00 05 24 0683	0375		INCA 1
/- 0649 00 05 10 0684			STA LCTR
/- 0620 00 01 42 0685			LD2 FIX1
/- 0651 00 05 08 0686			J2Z FINLINE
/- 0001 00 02 42 0687			LDA FIX2
/- 0213 02 05 24 0688			J2P 1F
/- 0001 00 00 39 0689			STA BTABLE+10,2
1899 02 05 24 0690	0687	1H	JMP 2F
/- 0849 02 00 33 0691			STA EQUIV-1,2
/- 0653 00 05 15 0692	0689	2H	STZ TABLE1-1,2(0-0)
0620 00 01 47 0693			LDX FIX3
0003 00 02 06 0694			JXZ FINLINE
0002 00 01 06 0695			SLAX 3
0002 00 02 06 0696			SRA 2
/- 0235 00 00 39 0697			SLAX 2
/- 0692 00 05 08 0698			JMP FIXUP
0001 00 01 48 0699			LDA FIX3
0000 00 01 05 0700			DECA 1
0279 00 05 09 0701			CHAR
0005 01 21 31 0702			LD1 PBUF
0620 00 00 39 0703			STX 5,1(2-5)
0704		*	JMP FINLINE

PSEUDO-OPERATIONS

0385 00 00 39 0704	*		JMP ADDR
0686 00 05 24 0704	*		STA FIX2
0684 00 00 39 0706			JMP FINISHLOC
/ - 0001 00 04 07 0707	0668	EQU	MOVE CONBOUND(4)
0385 00 00 39 0708			JMP ADDR
0678 00 00 39 0709	0667	CON	JMP FINISHINST
/ - 0001 00 04 07 0710	0666	ALF	MOVE ALFBOUND(4)
0289 00 05 10 0711			LD2 RBUF
0003 02 05 08 0712			LDA 3,2
0004 02 05 15 0713			LDX 4,2
/ - 0001 00 02 06 0714			SLAX 1
0674 00 05 24 0715			STA INST
0678 00 00 39 0716	0669	ORIG	JMP FINISHINST
/ - 0001 00 05 56 0718			JMP ADDR
0721 00 07 39 0719			CMPA 1F
0683 00 03 40 0720			JGE *+2
0019 00 02 48 0721			JANN SETLCTR
0374 00 00 39 0722			ENTA 19
0000 01 0000 0723	0718	1H	JMP BADERROR
0000000000 0724	0707	CONBOUND	CON 1(3-3)
0000000000 0725			CON 0
0000000000 0726			CON 0
0000000000 0727	0675	INSTBOUND	CON 0
0000000001 0728	0710	ALFBOUND	CON 1
0000000001 0729			CON 1
0000000001 0730			CON 1
0000000001 0731			CON 1
0732			* END OF ASSEMBLY
0732			* END OF ASSEMBLY
0385 00 00 39 0732	0665	END	JMP ADDR
/ - 0001 00 05 24 0733			STA STARTLOC
0001 00 05 08 0734			LDA 1F
0621 00 05 24 0735			STA READCARD
0684 00 00 39 0736			JMP FINISHLOC
/ - 0738 00 00 39 0737	0734	1H	JMP *+1
0001 00 05 08 0738			LDA 3F
0621 00 05 24 0739			STA READCARD
1050 00 02 49 0740			ENT1 SIZE
0849 01 05 08 0741			LDA TABLE1-1,1
/ - 0001 00 03 40 0742			JANN 8F
0279 00 05 10 0743			LD2 PBUF
0007 02 05 24 0744			STA 7,2
2949 01 05 15 0745			LDX TABLE2-1,1
0008 02 05 31 0746			STX 8,2
/ - 0684 00 05 25 0747			ST1 FIX1
0683 00 05 15 0748			LDX LCTR
/ - 0705 00 05 31 0749			STX FIX2
1899 01 05 15 0750			LDX EQUIV-1,1
/ - 0001 00 00 55 0751			INCX 1
0698 00 05 31 0752			STX FIX3
/ - 0715 00 05 33 0753			STZ INST
0188 00 02 49 0754			ENT1 BOUND+1
/ - 0724 00 04 07 0755			MOVE CONBOUND(4)
/ - 0413 00 09 56 0756			CMPA =48(1-1)=(1-1)
/ - 0001 00 08 39 0757			JNE 2F
0007 02 02 54 0758			ENT6 7,2
0387 00 00 39 0759	0757		JMP ADDR1
0678 00 00 39 0760	0738	2H	JMP FINISHINST
0762 00 00 39 0761	0738	3H	JMP *+1
/ - 0747 00 05 09 0762	0742	8H	LD1 FIX1
0001 00 01 49 0763			DEC1 1
0741 00 02 41 0764			J1P 1B
/ - 0733 00 03 37 0765			LDA STARTLOC(4-5)
0002 00 00 06 0766			SRA 2
/ - 0001 00 05 01 0767			ADD =1(1-1)=
0242 00 05 33 0768			STZ SWITCH
0235 00 00 39 0769			JMP FIXUP
/ - 0279 00 05 10 0770			LD2 PBUF
0297 00 05 08 0771			LDA ERRCOUNT
0000 00 01 05 0772			CCHAR
0000 02 05 31 0773			STX 0,2
/ - 0023 00 02 49 0774			ENT1 23
0001 00 05 08 0775			LDA 1F
0001 02 05 24 0776			INC2 1
0001 00 00 50 0777			DEC1 1
0001 00 01 49 0778			J1P **-3
0776 00 02 41 0779			

0269 00 00 39 0780	JMP PRINTOUT
0000 00 01 37 0781	OUT TBUF(TAPE)
0000 00 01 35 0782	ILOC OCTAPE)
0000 00 18 35 0783	ILOC O(PRINTER)
0002 00 02 05 0784	HLT 2
3500 00 02 54 0785	ENT6 3500
0000 06 01 36 0786	IN 0,6(TAPE)
0040 06 01 36 0787	IN 40,6(TAPE)
0000 06 00 39 0788	JMP 0,6
40 40 40 40 40 0789 0775	ALF ::::
	END BEGIN
01 00000000 0790 0767	1H
00000000 0791 0765	=1(1-1)
00000000 0792 0752	STARTLOC
00000000 0793 0749	FIX3
00000000 0794 0762	FIX2
00000005 0795 0587	FIX1
00000000 0796 0593	=5
00000000 0797 0599	R
00000008 0798 0584	L
00000000 0799 0676	=8
00000000 0800 0535	CONFLAG
00000005 0801 0457	VALUE
00000000 0802 0428	==5
00000000 0803 0604	=0
00000000 0804 0417	NEXTCHAR
00000000 0805 0756	=46(1-1)
00000000 0806 0411	=48(1-1)
00000000 0807 0409	=40(1-1)
00000000 0808 0582	=30(1-1)
00000000 0809 0602	FFIELD
00000000 0810 0560	ACCUM
00000000 0811 0537	OP
00000000 0812 0493	PAREN
0000001050 0813 0354	UNDOP
00000000 0814 0358	=SIZE
00000000 0815 0376	TEMPX
00000000 0816 0660	TEMPA
00000000 0817 0525	TEMP
00000000 0818 0771	UNDFLAG
00000000 0819 0748	ERRCOUNT
00000000 0820 0753	LCTR
00000000 0821 0263	INST
00000000 0822 0262	BASEINDEX
00000000 0823 0224	BASELOC
00000000 0824	MAXLOC
00000000

BEGIN39990000

LOC	INSTRUCTION	OPERAND	REGISTER A	REGISTER X	RI1	RI2	RI3	RI4	RI5	RI6	RJ	T COUNT	TIME
-----	-------------	---------	------------	------------	-----	-----	-----	-----	-----	-----	----	---------	------

test program should be finished

..... MIX ASSEMBLY PROGRAM

R
D
/ - 0000 00 20 07 0000
/- 0001 00 20 39 0021
/- 0001 00 05 08 0022
/- 0001 00 21 56 0023
/- 0001 00 05 31 0024
R
A / 0021 02 02 06 0025
/ 0025 00 01 34 0026
C 0000000000 0027
UO MD / - 0026 00 00 00 0028
/- 0001 00 00 35 0029
30 000900 00 0030
V F 0031
L 16 12 01 28 00 0000 0028 OH
0000 00 02 05 0001
0002
U / - 0001000000 0002 0022 =OF
0000000002 0003 0029 =2
0000000000 0004 0024 QUEER
2499999999 0005 0023 =B,(0-0)
00013.....

MIXAP TEST PROGRAM
PLEASE BE A GOOD ASSEMBLER
ORIG 1,1+1-1(1-1) 1
ORIG -5+9*5 1
MOVE (*)
JMP =OF(OB)
EQU -1/2+2//2
LDA =OF=
CMPA =B,(0-0)=(2-5)
STX QUEER
ORIG -5
SLAX OF,2(1-)
JBUS OF(1)
CON 1:0
XXX OF+1
IOC =2=2
CON *** (2-4),*(1-1)
EQU 0/0
ORIG 5(3-2)
ALF OKAY
HLT LENGTH THIS BAD +3
END 1000000001 ← out of range!

0784

HALT

+3030303030 +3030303036 +0125 +0150 +0000 +0000 +0097 +0000 0279 L

00275454

0485	+0489000963	+0478000839	+0000000249	+0559000039	+4700000000	0001	0001	0001	0001	0000
0490	+0800000524	+0810000510	+0497000141	+0812000524	+0525000142	0049	0049	0049	0009	0009
0495	+0024000248	+0479000039	+0504020039	+0528000039	+0543000039	0002	0002	0040	0010	0001
0500	+0517000039	+0514000039	+0509000039	+0521000039	+0545000039	0001	0002	0010	0004	0010
0505	+0553000039	+0809000508	+0000000255	+0519000039	+0811000510	0000	0002	0002	0002	0010
0510	+0532000442	+0809000508	+0800000502	+0522000039	+0809000503	0010	0004	0004	0004	0002
0515	+0005000206	+0522000039	+0809000508	+0005000306	+0800000504	0002	0002	0001	0001	0003
0520	+0522000039	+0809000501	+0817000059	+0545000141	+0495000039	0003	0004	0013	0022	0002
0525	+0817000525	+0799000509	+0523000039	+0001000255	+0811000531	0009	0009	0009	0010	0010
0530	+0808000524	+0549000039	+0808000508	+0798000503	+0005000206	0016	0016	0006	0006	0006
0535	+0800000501	+0530000039	+0811000533	+0799000510	+0549000442	0006	0006	0009	0009	0009
0540	+0808000508	+0820003624	+0549000039	+0820002724	+054900039	0004	0004	0004	0001	0001
0545	+0809000524	+0549000339	+0025000248	+0479000039	+0803000909	0030	0030	0001	0001	0060
0550	+0575000141	+0040000149	+0555000341	+0014000248	+0479000039	0060	0045	0045	0001	0001
0555	+0008000149	+055900041	+0003000248	+0479000039	+0574010108	0044	0044	0001	0001	0045
0560	+0810000524	+0574011909	+0000010039	+0799000509	+0396000141	0045	0045	0045	0004	0004
0565	+0581000039	+0005570000	+0505630000	+0603960000	+0103960000	0003	0000	0000	0000	0000
0570	+0103960000	+0203960000	+0303960000	+0203960000	+0403960000	0000	0000	0000	0000	0000
0575	+0799000509	+0581000441	+0809000508	+0820000224	+0820000508	0015	0015	0006	0006	0022
0580	+076000039	+0000000248	+0808000515	+06030003631	+0798000504	0022	0012	0012	0012	0012
0585	+0797000524	+0796000531	+0795000563	+0591000639	+0797000563	0012	0001	0001	0011	0011
0590	+0593000739	+0006000248	+0479000039	+0796000509	+0001000248	0011	0011	0037	0048	0048
0595	+0187010524	+059800039	+0187010533	+0001000149	+0797000557	0048	0048	0011	0011	0011
0600	+0597000739	+0187010524	+0809000508	+0820000224	+0803000909	0011	0003	0001	0001	0001
0605	+0579000141	+0392000039	+0000000135	+0169001636	+0000001835	0001	0001	0001	0010	0010
0610	+0235000039	+0009000249	+0001000348	+0193010524	+0001000149	0010	0001	1050	1050	1050
0615	+0613000341	+1049000249	+2950010533	+0001000149	+0617000341	0027	0027	0022	0022	0022
0620	+0269000039	+0762000039	+0000020908	+0046000148	+0620000140	0021	0021	0020	0020	0020
0625	+0002022108	+0620000140	+0794000533	+00000020508	+0654000140	0007	0007	0004	0004	0004
0630	+0640002156	+0641000539	+0001020515	+0000000249	+0348000039	0004	0004	0002	0002	0002
0635	+0001000050	+0649000441	+0004000248	+0290000039	+0654000039	0003	0003	0003	0003	0003
0640	+3008000000	+00000020910	+0030000150	+0632000042	+0010000150	0003	0003	0003	0003	0005
0645	+0632000342	+0203020515	+0001000248	+0203020524	+0794000526	0005	0005	0005	0005	0020
0650	+0819000508	+0793000524	+0001000055	+0792000531	+0289000510	0020	0020	0020	0020	0020
0655	+0002022108	+00000000255	+0348000039	+0188000249	+0674000347	0011	0011	0011	0011	0011
0660	+0816000531	+0799000531	+0820000533	+0799000511	+0671030039	0001	0001	0002	0002	0004
0665	+0732000039	+0710000039	+0707000039	+0704000039	+0717000039	0001	0001	0001	0001	0010
0670	+0850020533	+0016000248	+0290000039	+0000000255	+0820000531	0010	0010	0010	0017	0017
0675	+0727000407	+0799000533	+0385000039	+0299000039	+0819000515	0017	0017	0017	0019	0024
0680	+0213000039	+0819000508	+0001000048	+0819000524	+0794000510	0024	0009	0003	0003	0003
0685	+0620000142	+0793000508	+0690000242	+0213020524	+0692000039	0006	0006	0009	0009	0005
0690	+1899020524	+0849020033	+0792000515	+0620000147	+0003000206	0005	0005	0005	0005	0005
0695	+0002000106	+0002000206	+0235000039	+0792000508	+0001000148	0005	0005	0005	0005	0002
0700	+00000000105	+0279000509	+0005012131	+062000039	+038500039	0002	0002	0002	0002	0002
0705	+0793000524	+068400039	+0724000407	+0385000039	+0678000039	0001	0001	0001	0001	0001
0710	+0728000407	+0289000510	+0003020508	+0004020515	+0001000206	0003	0003	0004	0004	0004
0715	+0820000524	+067800039	+0385000039	+0723000556	+0721000739	0003	0002	0000	0000	0000
0720	+0683000340	+0019000248	+0374000039	+0000001000	+0000000000	0000	0000	0000	0000	0000
0725	+0000000000	+0000000000	+0000000000	+0000000001	+0000000001	0000	0000	0000	0000	0000
0730	+0000000001	+0000000001	+0385000039	+0791000524	+07370000508	0000	0000	0001	0001	0001
0735	+0621000524	+0684000039	+0738000039	+0761000508	+0621000524	0001	0001	0000	0001	0001
0740	+105000249	+0849010508	+0763000340	+0279000510	+0007020524	0001	1050	1050	0004	0004
0745	+2949010515	+0008020531	+0794000525	+0819000515	+0793000531	0004	0004	0004	0004	0004
0750	+1899010515	+0001000055	+0792000525	+0818000033	+0188000249	0004	0004	0004	0004	0004
0755	+0724000407	+0805000956	+0760000839	+0007020254	+0387000039	0004	0004	0004	0003	0003
0760	+0678000039	+0762000039	+0794000509	+0001000149	+0741000241	0004	0000	0004	1050	1050
0765	+0791003708	+0002000006	+0790000501	+02420000533	+0235000039	0001	0001	0001	0001	0001
0770	+0279000510	+0818000508	+0000000105	+00000020531	+0023000249	0001	0001	0001	0001	0001
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1825	+00000000000</td											

The image consists of five vertical columns and ten horizontal rows of small black circles. Each circle is approximately one-tenth the size of the image's width. The circles are arranged in a grid pattern, with each column containing ten circles and each row containing five circles. The overall pattern is a dense, light gray texture.

CARDSTART0003

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3792 +0000013710 +0002000023+0000000000 +3033373630 +3897 -0001 -0100 -0001 +3800 +3760 3791 E 0001 00018176
3793 +0000010208 +0002000023+0000000000 +3033373630 +3897 +0023 -0100 -0001 +3800 +3760 3791 E 0001 00018178
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