WRITROM.bas @32208

00	LD BC, 0004	01, 04, 00
	DEC BC	0B
	LD HL, 0000	21, 00, 00
	DEC HL	2B
	LD A, H	7C
	OR L	B5
	JR NZ	20, FB
	LD A, B	78
	OR C	B1
	JR NZ	20, F3
	LD A, 00	3E, 00
	OUT (1D), A	D3, 1D
	LD A, 80	3E, 80
	OUT (1B), A	D3, 1B
	OUT (1A), A	D3, 1A
	~~LD A, (DE)~~	
	LD HL, (8018)	2A, 18, 80
	PUSH HL	E5
	LD HL, 9000	21, 00, 90
	LD (8018), HL	22, 18, 80
	CALL (Rx)	CD, 05, 03
	CALL (Rx end)	CD, 14, 04
	POP HL	E1
	LD (8018), HL	22, 18, 80
	LD A, B5	3E, B5 (32815)
	OUT (1D), A	D3, 1D
	LD DE, 8000	11, 00, 80 (32820)
	LD HL, 9000	21, 00, 90
	LD BC, 4000	01, 00, 40
		18 FE

	LD A, D	7A
	OUT (1A), A	D3, 1A
	LD A, E	7B
	OUT (19), A	D3, 19
	LD A, (HL)	7E
	OUT (18), A	D3, 18
	LD A, D	7A
	AND 3F	E6, 3F
	OUT (1A), A	D3, 1A
	PUSH HL	E5 (32843)
	LD HL, 2000	21, 00, 20
	DEC HL	2B
	LD A, H	7C
	OR L	B5
	JR NZ	20, FB
	POP HL	E1
	LD A, D	7A
	OUT (1A), A	D3, 1A
	INC DE	13
	INC HL	23
	DEC BC	0B
	LD A, B	78
	OR C	B1
	JR NZ	20, DE (E1)
	POP DE	D1
	POP BC	C1
	POP HL	E1
	POP AF	F1
	RTN	ED, 45
	LD A 00	3E, 00
	OUT (1D), A	D3, 1D
	LD A, 80	3E, 80
	OUT (1B), A	D3, 1B

(A)

(A) WRITROM. bas

LD HL,(8018)	2A, 18, 80		LD A,B	78
PUSH HL	E5		OR C	B1
LD HL, 9000	21, 00, 90		JR NZ	20, [illegible] E1
LD (8018), HL	22, 18, 80			
CALL (RAM)	CD, 05, 03			
CALL (RAM inc)	CD, 14, 04			
POP HL	E1			
LD (8018), HL	22, 18, 80			
LD A, B5	3E B5	32812		
OUT (1D), A	D3, 1D			
LD DE, C000	11, 00, C0			A0 A0
LD HL, 9000	21, 00, 90			
LD BC, 4000	01, 00, 40			
LD A, D	7A			
OUT (1A), A	D3, 1A			
LD A, E	7B			
OUT (19), A	D3, 19			
LD A, (HL)	7E			
OUT (18), A	D3, 18			
LD A, D	7A			
AND DF	E6, DF			
OUT (1A), A	D3, 1A			
PUSH HL	E5	32911		
LD HL, 2000	21, 00, 20			
DEC HL	2B			
LD A, H	7C			
OR L	B5			
JR NZ	20, FB			
POP HL	E1			
LD A, D	7A			
OUT (1A), A	D3, 1A			
INC DE	13			
INC HL	23			
DEC BC	0B			

WRITROM.bas @32268

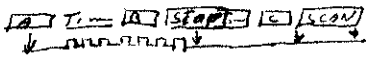
	LD BC,0004	01,04,00			
	DEC BC	0B			
	LD HL,0000	21,00,00			
	DEC HL	2B			
	LD A,H	7C			
	OR L	B5			
	JR NZ	20,FB			
	LD A,B	78			
	OR C	B1			
	JR NZ	20,F3			
	LD A,00	3E,00			
	OUT (1D),A	D3,1D			
	LD A,80	3E,80			
	OUT (1B),A	D3,1B			
	OUT (1A),A	D3,1A			
	LD HL,(8018)	2A,18,80			
	PUSH HL	E5			
	LD HL,9000	21,00,90			
	LD (8014),HL	22,14,80			
	CALL (Rx)	CD,05,03			
	CALL (Rx enc)	CD,14,04			
	POP HL	E1			
	LD (8018),HL	22,18,80			

readrom.bas @32208

LD BC,0004	01,04,00
DEC BC ←	0B
LD HL,0000	21,00,00
DEC HL ←	2B
LD A,H	7C
OR L	B5
JR NZ —	20,FB
LD A,B	78
OR C	B1
JR NZ —	20,F3
LD A,00	3E,00
OUT(1D),A	D3,1D
LD A,90	3E,90
OUT(1B),A	D3,1B
LD A,C0	3E,C0
OUT(1A),A	D3,1A
LD A,B5	3E,B5 (12Vcc)
OUT(1D),A	D3,1D @32802
LD DE,8000	11,00,80 ←
LD HL,9000	21,00,90
LD BC,4000	01,00,40
LD A,D ←	7A
AND 2F	E6,2F
OUT(1A),A	D3,1A
LD A,E	7B
OUT(19),A	D3,19
IN A,(18)	DB,18
LD (HL),A	77
INC DE	13
INC HL	23
DEC BC	0B
LD A,B	78
OR C	B1
JR NZ —	20,EE

LD A,00	3E,00
OUT(1D),A	D3,1D
LD A,80	3E,80
OUT(1B),A	D3,1B
LD HL,(8018)	2A,18,80
PUSH HL	E5
LD HL,9000	21,00,90
LD(8018),HL	22,18,80
LD HL,4000	21,00,40
LD (8016),HL	22,16,80
CALL (Rx crc)	CD,FF,03
CALL (Tx)	CD,21,03
POP HL	E1
LD (8018),HL	22,18,80
POP DE	D1
POP BC	C1
POP HL	E1
POP AF	F1
RTN	ED,45

REFSCAN (1)



8	LD BC, 0004	01, 04, 00		844	LD A, 02	3E, 02	
1	DEC BC	0B		46	OUT (E4), A	D3, E4	
2	LD HL, 0000	21, 00, 00		48	LD A, 49	3E, 49	
5	DEC HL	2B		50	OUT (F1), A	D3, F1	
C	LD A, H	2C		52	LD A, 49	3E, 49	
2A	OR L	B5		54	OUT (F1), A	D3, F1	
2B	JR NZ	20, FB	(A)	56	LD A, 09	3E, 09	
30	LD A, B	28		58	OUT (F1), A	D3, F1	
31	OR C	B1		60	LD HL, (8018)	2A, 18, 80	
32	JR NZ	20, F3		63	PUSH HL	E5	
34	LD A, 36	3E, 36		64	IN A, (F2)	DB, F2	
36	OUT (EB), A	D3, EB		66	AND 01	E6, 01	
38	LD A, 80	3E, 80		68	CP 01	FE, 01	
90	OUT (E8), A	D3, E8		70	JR NZ	20, F8	
92	LD A, 02	3E, 02		72	LD A, 36	3E, 36	
94	OUT (E8), A	D3, E8		74	OUT (E2), A	D3, E2	
96	LD BC, 0004	01, 04, 00		76	LD A, 29	3E, 29	
99	DEC BC	0B		78	OUT (F1), A	D3, F1	
00	LD HL, 0000	21, 00, 00		80	LD A, 09	3E, 09	
03	DEC HL	2B		82	LD (8038), A	32, 38, 80	
04	LD A, H	2C		85	LD A, (8038) ②	3A, 38, 80	
05	OR L	B5	(B)	88	DEC, A	3D	
06	JR NZ	20, FB		89	JR Z	28, 2B	
08	LD A, B	28		91	LD (8038), A	32, 38, 80	
09	OR C	B1		94	LD HL, 9000	21, 00, 90	
10	JR NZ	20, F3		92	LD (8018), HL	22, 18, 80	
12	LD A, 36	3E, 36		900	LD BC, 4000	01, 00, 40	
14	OUT (EB), A	D3, EB		03	LD (8016), BC	ED, 43, 16, 80	
16	LD BC, 0004	01, 04, 00		02	IN A, F0	DB, F0	
19	DEC BC	0B		09	LD (HL), A	77	
20	LD HL, 0000	21, 00, 00		10	INC HL	23	
23	DEC HL	2B		11	DEC BC	0B	
24	LD A, H	2C	(C)	12	LD A, B	78	
25	OR L	B5		13	OR C	B1	
26	JR NZ	20, FB		14	JR Z	28, 0A	
28	LD A, B	28		16	LD A, 31	3E, 31	
29	OR C	B1		18	OUT (F1), A	D3, F1	
30	JR NZ	20, F3		20	LD A, 39	3E, 39	
32	LD A, 91	3E, 91		22	OUT (F1), A	D3, F1	
34	OUT (F3), A	D3, F3		24	JR	18, ED	
36	LD A, 36	3E, 36		26	CALL (Tx CRC)	CD, FF, 03	
38	OUT (E2), A	D3, E2					
40	LD A, 80	3E, 80					
42	OUT (E4), A	D3, E4					

29	CALL (Tx)	CD, D1, 03
32	JR → (3)	18, CF
34	LD A, C9	3E, C9
6	OUT (F1), A	D3, F1
8	POP HL	E1
9	LD (8018), HL	22, 18, 80
42	POP DE	D1
43	POP BC	C1
44	POP HL	E1
45	POP AF	F1
46	RTN	ED, 45

GEN Z80CPU

LD BC, 0004	01, 04, 00
DEC BC ←	0B
LD HL, 0000	21, 00, 00
DEC HL ←	2B
LD A, H	7C
OR L	B5
JR NZ	20, FB
LD A, B	78
OR C	B1
JR NZ	20, F3
~~PUSH~~ LD HL, (8018)	2A, 18, 80
PUSH HL	E5
LD A,	3E, 81
OUT (F3), A	D3, F3
LD A,	3E, F1
OUT (F1), A	D3, F1
LD A, 36	3E, 36
OUT (E2), A	D3, E2
LD A, 04	3E, 04
LD (8038), A	32, 38, 80
LD A, (8038)	3A, 38, 80 ←
DEC, A	3D
JR Z	28,
LD (8038), A	32, 38, 80
LD HL, 9000	21, 00, 90
LD (8018), HL	22, 18, 80
~~LD BC, 4000~~	~~01, 00, 40~~
CALL (Rx)	
CALL (Rx CRC)	

SIG-SCAN (1)

8	LD BC,0004	01,04,00	
A	DEC BC	0B	
D	LD HL,0000	21,00,00	
5	DEC HL	2B	
6	LD A,H	2C	
7	OR L	B5	
8	JR NZ	20,FB	
A	LD A,B	28	
B	OR C	B1	
C	JR NZ	20,F3	
E	LD A,91	3E,91	
0	OUT (F3),A	D3,F3	
2	LD A,36	3E,36	
4	OUT (E2),A	D3,E2	
6	LD A,80	3E,80	
8	OUT (E4),A	D3,E4	
A	LD A,02	3E,02	
C	OUT (E4),A	D3,E4	
E	LD A,49	3E,49 (31)	
0	OUT (F1),A	D3,F1 (EA)	
2	LD A,49	3E,49	
4	OUT (F1),A	D3,F1	
6	LD A,09	3E,09	
8	OUT (F1),A	D3,F1	
A	LD BC,0004	01,04,00	
D	DEC BC	0B	
E	LD HL,0000	21,00,00	
1	DEC HL	2B	
2	LD A,H	2C	
3	OR L	B5	
4	JR NZ	20,FB	
6	LD A,B	28	
7	OR C	B1	
8	JR NZ	20,F3	
A	LD A,36	3E,36	
C	OUT (E2),A	D3,E2	
E	LD A,80	3E,80	
0	OUT (E8),A	D3,E8	

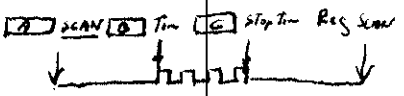
36	LD A,02	3E,02	
38	OUT (E8),A	D3,E8	
40	LD BC,0004	01,04,00	
43	DEC BC	0B	
44	LD HL,0000	21,00,00	
47	DEC HL	2B	
48	LD A,H	2C	
49	OR L	B5	
50	JR NZ	20,FB	
52	LD A,B	28	
53	OR C	B1	
54	JR NZ	20,F3	
56	LD A,36	3E,36	
58	OUT (E2),A	D3,E2	
60	LD HL,(8018)	2A,18,80	
63	PUSH HL	E5	
64	IN A,(F2)	DB,F2	
66	AND 01	E6,01	
68	CP 01	FE,01	
20	JR NZ	20,F8	
22	LD A,36	3E,36	
24	OUT (E2),A	D3,E2	
26	LD A,29	3E,29	
28	OUT (F1),A	D3,F1	
80	LD A,09	3E,09	
82	LD (8038),A	32,38,80	
85	LD A,(8038)	3A,38,80 ←Z	
88	DEC A	3D	
89	JR Z	28,2B	
91	LD (8038),A	32,38,80	
94	LD HL,9000	21,00,90	
92	LD (8018),HL	22,18,80	
900	LD BC,4000	01,00,40	
03	LD (8016),BC	ED,43,16,80	
02	IN A,F0	DB,F0 ←X	
09	LD (HL),A	32	
10	INC HL	23	
11	DEC BC	0B	

START TIM1 → 7 ↺(A)

START SCAN → 7 ↺(B)

STOP TIM1 → 7 ↺(C)

2	LD A, B	78	
3	OR C	B1	
4	JR z →	28, ØA	→(7)
6	LD A, 31	3E, 31	
8	OUT (F1), A	D3, F1	
0	LD A, 39	3E, 39	
2	OUT (F1), A	D3, F1	
4	JR →	18, ED	→(8)
6	CALL (Tm calc)	CD, FF, 03	
9	CALL (Tm)	CD, 21, 03	
C	JR →	18, CF	→(2)
4	LD A, C9	3E, C9	
6	OUT (F1), A	D3, F1	
8	POP HL	E1	
4	LD (8018), HL	22, 18, 80	
2	POP DE	D1	
3	POP BC	C1	
4	POP HL	E1	
5	POP AF	F1	
16	RTN	ED, 45	



INIT TIMER ntim.bas → (32768)

LD BC, 0004	01, 04, 00
DEC BC	0B
LD HL, 0000	21, 00, 00
DEC HL	2B
LD A, H	7C
OR L	B5
JR NZ	20, FB
LD A, B	78
OR C	B1
JR NZ	20, F3
LD A, 91	3E, 91
OUT (F3), A	D3, F3
LD A, 36	3E, 36 ← (32289)
OUT (E2), A	D3, E2 ← (32291)
LD A, 80	3E, 80 ← (32293)
OUT (E4), A	D3, E4 ← (32295)
LD A, 02	3E, 02 ← (32297)
OUT (E4), A	D3, E4 ← (32299)
LD A, A1	3E, A1
OUT (F1), A	D3, F1
POP DE	D1
POP BC	C1
POP HL	E1
POP AF	F1
RTN	ED, 45

DEF SEG = &H4000
BLOAD "pgm/ntim",
32768
POKE

strmi.bas

SCAN TIMER

68	LD BC,0004	01,04,00
21	DEC BC	0B
22	LD HL,0000	21,00,00
25	DEC HL	2B
26	LD A,H	7C
22	OR L	B5
28	JR NZ	20,FB
80	LD A,B	78
81	OR C	B1
82	JR NZ	20,F3
84	LD HL,(8018)	2A,18,80
82	PUSH HL	E5
89	LD A,91	3E,91
90	OUT (F3),A	D3,F3
92	LD A,36	3E,36
94	OUT (E2),A	D3,E2
96	LD A,80	3E,80
98	OUT (E4),A	D3,E4
00	LD A,02	3E,02
02	OUT (E4),A	D3,E4
04	LD A,49	3E,49
06	OUT (F1),A	D3,F1
08	LD A,49	3E,49
10	OUT (F1),A	D3,F1
12	LD A,09	3E,09
14	OUT (F1),A	D3,F1
16	IN A,(F2)	DB,F2
18	AND 01	E6,01
20	CP 01	FE,01
22	JR NZ	20,F8
24	LD A,36	3E,36
26	OUT (E2),A	D3,E2
28	LD A,29	3E,29
30	OUT (F1),A	D3,F1
32	LD A,09	3E,09
34	LD (8038),A	32,38,80
37	LD A,(8038)	3A,38,80
40	DEC A	3D
41	JR Z →(t)	28,2B
43	LD (8038),A	32,38,80
46	LD HL,9000	21,00,90
49	LD (8018),HL	22,18,80
52	LD BC,4000	01,00,40
55	LD (8016),BC	ED,43,16,80
59	IN A,(F0)	DB,F0
61	LD (HL),A	77
62	INC HL	23
63	DEC BC	0B
64	LD A,B	78
65	OR C	B1
66	JR Z →(y)	28,0A
68	LD A,31	3E,31
20	OUT (F1),A	D3,F1
22	LD A,39	3E,39
24	OUT (F1),A	D3,F1
26	JR →(x)	18,ED
28	CALL (Tx CRC)	CD,FF,03
81	CALL (Tx)	CD,21,03
84	JR →(z)	18,CF
86	LD A,C9 ←(t)	3E,C9
68	OUT (F1),A	D3,F1
90	POP HL	E1
91	LD (8018),HL	22,18,80
94	POP DE	D1
95	POP BC	C1
96	POP HL	E1
92	POP AF	F1
98	RTN	ED,45

(32833)

ESPECTR.BAS

```
00 21,00,D0   LD HL,D000
03 3E,00      LD A,00
05 22         LD (HL),A
06 23         INC HL
07 2C         LD A,H
08 FE,F8      CP F8
0A 20,F2      JR NZ
0C 2A,18,80   LD HL,(8018)
0F E5         PUSH HL
10 21,00,F0   LD HL,F000
13 22,42,80   LD (8042),HL
16 21,00,90   LD HL,9000
19 11,00,00   LD DE,0000
1C 23         INC HL
1D 13         INC DE
1E 23         INC HL
1F 13         INC DE
20 3E,00      LD A,0
22 32,40,80   LD (8040),A
25 CD,8C,88   CALL (Min)
28 CD,A2,88   CALL (Max)
2B 23         INC HL
2C 13         INC DE
2D 2C         LD A,H
2E FE,D0      CP D0
30 20,F3      JR NZ
32 21,00,00   LD HL,0000
35 22,42,80   LD (8042),HL
38 21,00,F0   LD HL,F000
3B 11,00,00   LD DE,0000
3E 23         INC HL
3F 13         INC DE
40 23         INC HL
41 13         INC DE
42 3E,00      LD A,0
44 32,40,80   LD (8040),A
```

```
47 CD,8C,88   CALL (Min)
4A CD,A2,88   CALL (Max)
4D 23         INC HL
4E 13         INC DE
4F 2C         LD A,H
50 FE,F8      CP F8
52 20,F3      JR NZ
54 21,00,D0   LD HL,D000
57 22,18,80   LD (8018),HL
5A 21,00,28   LD HL,2800
5D 22,16,80   LD (8016),HL
60 CD,FF,03   CALL (Tx car)
63 CD,21,03   CALL (Tx)
66 E1         POP HL
67 22,18,80   LD (8018),HL
6A D1         POP DE
6B C1         POP BC
6C E1         POP HL
6D F1         POP AF
6E ED,45      RTN
```

(Diference)

```
8820 3A,40,80   LD A,(8040)
23 96           SUB (HL)
24 38,0E        JRC
26 ED,4B,42,80  LD BC(8042)
2A 02           LD (BC),A
2B 03           INC BC
2C ED,43,42,80  LD (8042),BC
80 32,40,80     LD (8040),A
83 C9           RET
84 3A,40,80     LD A,(8040)
87 4F           LD C,A
88 7E           LD A,(HL)
89 91           SUB C
8A 18,EA        JR
```

888C

Min

8C	7E	LD A, (HL)
8D	2B	DEC HL
8E	BE	CP (HL)
8F	38, ØF	JR C
91	7E	LD A, (HL)
92	2B	DEC HL
93	BE	CP (HL)
94	3Ø, Ø9	JR NC
96	23	INC HL
97	CD, 7Ø, 88	CALL (Difference)
9A	CD, B8, 88	CALL (Min/Max)
9D	18, Ø1	JR
9F	23	INC HL
AØ	23	INC HL
A1	C9	RET

Max

A2	7E	LD A, (HL)
A3	2B	DEC HL
A4	BE	CP (HL)
A5	3Ø, ØF	JR NC
A7	7E	LD A, (HL)
A8	2B	DEC HL
A9	BE	CP (HL)
AA	38, Ø9	JR C
AC	23	INC HL
AD	CD, 7Ø, 88	CALL (Difference)
BØ	CD, B8, 88	CALL (Min Max)
B3	18, Ø1	JR
B5	23	INC HL
B6	23	INC HL
B7	C9	RET
B8		

(M1 – M2 R)

8	E5		PUSH HL		PUSH HL
9	37		~~LD A, E~~ SCF		SCF
A	3F		CCF		CCF
B	~~2B~~	2A	~~LD A, E~~	LD A, D	~~LD A, E~~
C	~~07~~	1F	~~RLA~~	RRA	RLA
D	~~5F~~	57	~~LD E, A~~	LD D, A	LD E, A
E	~~7A~~	2B	~~LD A, D~~	LD A, E	LD A, D
F	~~07~~	1F	~~RLA~~	RRA	RLA
Ø	~~57~~	5F	~~LD D, A~~	LD E, A	LD D, A
1	21, ØØ, DØ		LD HL, DØØØ		~~LD HL, DØØØ~~
4	19		ADD HL, DE		~~ADD HL, DE~~
5	34		INC (HL)		
6	~~E1~~		POP HL		
2	~~11, 00, 00~~		~~LD DE, ØØØØ~~		
A	~~C9~~		~~RET~~		
6	2A, FE, F2		LD HL, (F2FE)		
9	23		INC HL		
A	22, FE, F2		LD (F2FE), HL		
D	E1		POP HL		
E	11, 00, 00		LD DE, 0000		
1	C9		RET		

import → (32268)

vin.bas

	LD BC,0004	01,04,00
3	DEC BC	0B
1	LD HL,0000	21,00,00
2	DEC HL	2B
	LD A,H	2C
	OR L	B5
9	JR NZ	20,FB
C	LD A,B	28
D	OR C	B1
E	JR NZ	20,F3
Ø	IN A,(F3)	DB, F3 (32285)
2	LD HL,(8018)	2A,18,80
5	PUSH HL	E5
6	LD HL,9000	21,00,90
9	LD (8018),HL	22,18,80
C	LD HL,0002	21,02,00
F	LD (8016),HL	22,16,80
2	LD (9000),A	32,00,90
5	CALL (Tx crc)	CD,FF,03
8	CALL (Tx)	CD,21,03
B	POP HL	E1
E	LD (8018),HL	22,18,80
F	POP DE	D1
Ø	POP BC	C1
1	POP HL	E1
2	POP AF	F1
3	RTN	ED,45

32268	LD BC,0004	01,04,00
21	DEC BC	0B
22	LD HL,0000	21,Ø0,Ø0
25	DEC HL	2B
26	LD A,H	2C
22	OR L	B5
28	JR NZ	20,FB
80	LD A,B	28
81	OR C	B1
82	JR NZ	20,F3
84	LD HL,(8018)	2A,18,80
82	PUSH HL	E5
88	LD A,Ø1	3E,Ø1 (32289)
90	OUT (1E),A	D3,1E
92	CALL (Vin)	CD,48,00
	~~Duplicate~~	
95	LD HL,801F	21,1F,80
98	LD (8018),HL	22,18,80
32801	LD HL,0002	21,02,00
04	LD (8016),HL	22,16,80
02	CALL (Tx CRC)	CD,FF,03
10	CALL (Tx)	CD,21,03
13	POP HL	E1
14	LD (8018),HL	22,18,80
12	POP DE	D1
18	POP BC	C1
19	POP HL	E1
20	POP AF	F1
21	RTN	ED,45

(font.bas) & nport.bas ⟶ (32268) borr.bas

0	LD BC,0004	01,04,00
3	DEC BC	0B
4	LD HL,0000	21,00,00
2	DEC HL	2B
8	LD A,H	2C
9	OR L	B5
A	JR NZ	20,FB
C	LD A,B	78
D	OR C	B1
E	JR NZ	20,F3
0	LD A,91	3E,91 (32285)
2	OUT (F3),A	D3,F3 (32282)
4	POP DE	D1
5	POP BC	C1
6	POP HL	E1
7	POP AF	F1
8	RTN	ED,45

8800	LD HL,9000	21,00,90
03	LD A,00	3E,01
05	LD (HL),A	22
06	INC HL	23
07	LD A,H	7C
08	CP F0	FE,F0
0A	JR NZ	20,F7
0C	POP DE	D1
0D	POP BC	C1
0E	POP HL	E1
0F	POP AF	F1
10	RTN	ED,45

borra.bas

32268	LD HL,9000	21,00,90
21	LD BC,6000	01,00,60
24	LD D,00	16,00
26	LD (HL),D	22
27	INC HL	23
28	DEC BC	0B
29	LD A,B	78
80	OR C	B1
81	JR NZ	20,F9
83	POP DE	D1
84	POP BC	C1
85	POP HL	E1
86	POP AF	F1
82	RTN	ED,45

32768 . median.bas 2000/ 8000/ (~~49152~~)

1E	~~MOV~~ PUSH DS
B8, 00, 40	MOV AX, 4000
8E, D8	MOV DS, AX.
BB, 00, 00	MOV BX, 0000
BF, 00, 00	MOV DI, 0000
B0, 00	MOV AL, 00
B9, 00, 00	MOV CX, 0000
83, F9, 00	~~MOV~~ CMP CX, 00
75, 04	JNZ
1F	~~RET~~ POP DS
CB, 00, 00	RET 0000
88, 01	MOV (BX+DI), AL
47	INC DI
49	DEC CX
EB, F1	JMP

scgen.bas

```
    LD BC,0004      01,04,00
    DEC BC          0B
    LD HL,0000      21,00,00
    DEC HL          2B
    LD A,H          7C
    OR L            B5
    JR NZ           20,FB
    LD A,B          78
    OR C            B1
    JR NZ           20,F3
    LD HL,(8018)    2A,18,80
    PUSH HL         E5

    LD A,81         3E,81
    OUT (F3),A      D3,F3
    LD A,F9         3E,F9
    OUT (F1),A      D3,F1
    LD HL,0008      21,08,00
    LD (8038),HL    22,38,80
    LD HL,(8038)<-2 2A,38,80
    LD A,H          7C
    OR L            B5
    JR Z ->1        28,2E
    DEC HL          2B
    LD (8038),HL    22,38,80
    LD HL,9000      21,00,90
    LD (8018),HL    22,18,80
    CALL Rx         CD,05,03
    CALL Rx crc     CD,14,04
    LD HL,9000      21,00,90
    LD BC,(8016)    ED,4B,16,80
    LD A,11<-       3E,11
    OUT (F1),A      D3,F1
    LD A,31         3E,31
    OUT (F1),A      D3,F1
    LD A,(HL)       7E
    OUT (F0),A      D3,F0
    LD A,39         3E,39
    OUT (F1),A      D3,F1
    INC HL          23
    DEC BC          0B
    LD A,B          78
    OR C            B1
    JR NZ           20,EB

    JR ->2          18,CB
1<- LD A,91         3E,91
    OUT (F3),A      D3,F3
    LD A,F1         3E,F1
    OUT (F1),A      D3,F1
    LD A,36         3E,36
    OUT (E2),A      D3,E2
    LD A,80         3E,80   (xx)
    OUT (E4),A      D3,E4
    LD A,02         3E,02   (xx)
    OUT (E4),A      D3,E4
    LD A,29         3E,29   (3C)
    OUT (F1),A      D3,F1   (E2)

    LD HL,0004      21,04,00
<-4 LD A,29         3E,29   (2xxx9)
    OUT (F1),A      D3,F1
    LD A,39         3E,39   (3xxx0)
    OUT (F1),A      D3,F1
    IN A,(F2)<-     DB,F2
    AND 01          E6,01
    CP 01           FE,01
    JR NZ           20,F8
    DEC HL          2B
    LD A,H          7C
    OR L            B5
    JR NZ           20,EB
    LD A,91         3E,91
    OUT (F1),A      D3,F1

    POP HL          E1
    LD (8018),HL    22,18,80
    POP DE          D1
    POP BC          C1
    POP HL          E1
    POP AF          F1
    RTN             ED,45
```

scpugen.bas

8	LD BC, 0004	01, 04, 00
1	DEC BC	0B
2	LD HL, 0000	21, 00, 00
5	DEC HL	2B
6	LD A, H	7C
7	OR L	B5
8	JR NZ	20, FB
0	LD A, B	78
1	OR C	B1
2	JR NZ	20, F3
4	LD HL, (8018)	2A, 18, 80
2	PUSH HL	E5
8	LD A, 81	3E, 81
0	OUT (F3), A	D3, F3
2	LD A, 59	3E, 59
4	OUT (F1), A	D3, F1
6	LD HL, 9000	21, 00, 90
9	LD (8018), HL	22, 18, 80
2	CALL Rx	CD, 05, 03
5	CALL Rx inc	CD, 14, 04
8	LD HL, 9000	21, 00, 90
1	LD BC, (8016)	ED, 4B, 16, 80
5	LD A, (HL)	7E
6	OUT (F0), A	D3, F0
8	LD A, 11	3E, 11
0	OUT (F1), A	D3, F1
2	LD A, 19	3E, 19
4	OUT (F1), A	D3, F1
6	INC HL	23
7	DEC BC	0B
8	LD A, B	78
9	OR C	B1
0	JR NZ	20, EF
2	LD A, 91	3E, 91
4	OUT (F3), A	D3, F3
6	LD A, 36	3E, 36
8	OUT (E2), A	D3, E2 (Neo Timer)
0	LD HL, 0003	21, 03, 00
3	LD BC, (8016)	ED, 4B, 16, 80
2	LD A, F1	3E, F1
9	OUT (F1), A	D3, F1

51	LD A, 31	3E, 31
53	OUT (F1), A	D3, F1
55	LD DE, 8000	11, 00, 80
58	DEC DE	1B (Delay)
59	LD A, D	7A
60	OR E	B3
61	JR NZ	20, FB
63	LD A, 39	3E, 39
65	OUT (F1), A	D3, F1
62	DEC BC	0B
68	LD A, B	78
69	OR C	B1
20	JR NZ	20, EB
22	DEC HL	2B
23	LD A, H	7C
24	OR L	B5
25	JR NZ → ④	20, DE
22	LD A, B1	3E, 91
29	OUT (F1), A	D3, F1
81	POP HL	E1
82	LD (8018), HL	22, 18, 80
85	POP DE	D1
86	POP BC	C1
82	POP HL	E1
88	POP AF	F1
89	RTN	ED, 45

PWGen.bas

```
LD BC,0004      01,04,00
DEC BC          0B
LD HL,0000      21,00,00
DEC HL          2B
LD A,H          7C
OR L            B5
JR NZ           20,FB
LD A,B          78
OR C            B1
JR NZ           20,F3

LD HL,(8018)    2A,18,80
PUSH HL         E5
LD HL,9000      21,00,90
LD (8018),HL    22,18,80
CALL Rx         CD,05,03
CALL Rx crc     CD,14,04
LD HL,0000      21,00,00    Nr H
LD (8046),HL    22,46,80
LD HL,0010      21,10,00    Nr L
LD (8048),HL    22,48,80
LD HL,0000      21,00,00    DL H
LD (8042),HL    22,42,80
LD HL,1000      21,00,10    DL L
LD (8044),HL    22,44,80

LD HL,(8048)  (A)  2A,48,80
LD A,H          7C
OR L            B5
JR NZ           20,0E
LD HL,(8046)    2A,46,80
LD A,H          7C
OR L            B5
JR Z  -> (B)    28,3B
DEC HL          2B
LD (8046),HL    22,46,80
LD HL,0000      21,00,00
DEC HL          2B
LD (8048),HL    22,48,80

LD HL,(8016)    2A,16,80
LD (8040),HL    22,40,80
LD DE,9000      11,00,90
LD A,(DE)       1A
OUT (1C),A      D3,1C
INC DE          13
LD HL,(8040)    2A,40,80
DEC HL          2B
LD A,H          7C
OR L            B5
JR Z  -> (A)    28,D2
LD (8040),HL    22,40,80
LD BC,(8042)    ED,4B,42,80
LD HL,(8044)    2A,44,80
LD A,H          7C
OR L            B5
JR Z            28,03
DEC HL          2B
JR              18,F9
LD A,B          78
OR C            B1
JR Z            28,DF
DEC BC          0B
LD HL,FFFF      21,FF,FF
JR              18,EF
LD A,00  (B)    3E,00
OUT (1C),A      D3,1C
POP HL          E1
LD (8018),HL    22,18,80
POP DE          D1
POP BC          C1
POP HL          E1
POP AF          F1
RTN             ED,45
```