

;DISASSEMBLAGGIO ROM 'SPECTRADOS' OPUS

;

ORG 00000H

;

X0E3B	EQU	00E3BH
X1730	EQU	01730H
X1737	EQU	01737H
X2780	EQU	02780H
X2A15	EQU	02A15H
Y3000	EQU	03000H
Y3031	EQU	03031H
Y3800	EQU	03800H
Y3801	EQU	03801H
Y3802	EQU	03802H
Y3803	EQU	03803H
Y5C0E	EQU	05C0EH
Y5C0F	EQU	05C0FH
Y5C3A	EQU	05C3AH
Y5C3D	EQU	05C3DH
Y5C45	EQU	05C45H
Y5C4F	EQU	05C4FH
Y5C51	EQU	05C51H
Y5C53	EQU	05C53H
Y5C59	EQU	05C59H
Y5C5B	EQU	05C5BH
Y5C5D	EQU	05C5DH
Y5C5F	EQU	05C5FH
Y5C61	EQU	05C61H
Y5C65	EQU	05C65H
Y5C74	EQU	05C74H
Y5C8E	EQU	05C8EH
Y5C91	EQU	05C91H
Y5C9C	EQU	05C9CH
Y5C9E	EQU	05C9EH
Y5CA0	EQU	05CA0H
Y5CAC	EQU	05CACH
Y5CAE	EQU	05CAEH
Y5CB0	EQU	05CB0H
Y78CD	EQU	078CDH
Y8D32	EQU	08D32H
YA738	EQU	0A738H
XCD15	EQU	0CD15H
YCD38	EQU	0CD38H
XD71B	EQU	0D71BH
XD915	EQU	0D915H
XDD15	EQU	0DD15H
XE133	EQU	0E133H
YEFES	EQU	0EFE5H

;

0000	F3	T0000:	DI	
0001	310240	T0001:	LXI	SP,04002H
0004	C33717		JMP	X1737
0007	FF	T0007:	DB	0FFH
0008	C31005	T0008:	JMP	A0510
000B	E1		POP	H
000C	F5		PUSH	PSW
000D	C36700		JMP	A00B7

;

0010	E3	T0010:	XTHL		EX (SP), HL
0011	FDE1	T0011:	POP	Y	POP 1Y
0013	D5		PUSH	D	PUSH DE
0014	5E	T0014:	MOV	E, M	LD E, (HL)
0015	23		INX	H	INC HL
0016	183B		JMPR	A0053	JR 0053H
0018	FDCB017E		BIT	7, 001H(Y)	
001C	C9		RET		
001D	CF		RST	1	
001E	47		MOV	B, A	
001F	FF	T001F:	RST	7	
0020	D7	T0020:	RST	2	
0021	2000		JRNZ	A0023	
0023	C9	A0023:	RET		
0024	FF		DB	OFFH	
0025	FF	T0025:	DB	OFFH, OFFH, OFFH	
0028	E1		POP	H	
0029	4E		MOV	C, M	
002A	0800		MVI	B, 000H	
002C	E5		PUSH	H	
002D	C39105		JMP	A0591	
0030	E1		POP	H	
0031	4E		MOV	C, M	
0032	23		INX	H	
0033	E5		PUSH	H	
0034	C3D704		JMP	A04D7	
0037	FF		DB	OFFH	
0038	FDE5		PUSH	Y	
003A	D7		RST	2	
003B	3800		JRC	A003D	
003D	FDE1	A003D:	POP	Y	
003F	C9		RET		
0040	DD8B03	A0040:	ADD	003H(X)	
0043	2F		CMA		
0044	320238		STA	Y3802	
0047	C9		RET		
0048	C5		PUSH	B	
0049	D5		PUSH	D	
004A	114A00	T004A:	LXI	D, T004A	
004D	D5		PUSH	D	
004E	0800		MVI	B, 000H	
0050	F7	A0050:	RST	8	
0051	08E9		MVI	B, 0E9H	
0053	58	A0053:	MOV	D, M	
0054	23		INX	H	
0055	E3		XTHL		
0056	EB		XCHG		
0057	E5		PUSH	H	
0058	210817		LXI	H, 01708H	
005B	E3		XTHL		

LD B, (HL)
 INC HL
 EX (SP), HL
 EX DE, HL
 PUSH HL
 LD HL, 1708
 EX (SP), HL

005C	FDE5		PUSH	Y
005E	E3		XTHL	
005F	FD213A5C		LXI	Y,05C3AH
0063	C30007		JMP	A0700
;				
0066	E9		PCHL	
;				
0067	D7	A0067:	RST	Z
0068	7B	T0068:	MOV	A,E
0069	00		NOP	
006A	23		INX	H
006B	E3		XTHL	
006C	E5		PUSH	H
006D	D5		PUSH	D
006E	0BFF		MVI	B,0FFH
0070	F7		RST	B
0071	00		NOP	
0072	D1		POP	D
0073	C1		POP	B
0074	E9	A0074:	PCHL	
;				
0075	FDCB029E		RES	3,002H(Y)
0079	C5		PUSH	B
007A	2A515C		LHLD	Y5C51
007D	E5		PUSH	H
007E	DDE1		POP	X
0080	DD7E04	T0080:	MOV	A,004H(X)
0083	F620		ORI	020H
0085	EB		XCHG	
0086	37		STC	
0087	ED52		DSBC	D
0089	45		MOV	B,L
008A	F7		RST	B
008B	08		EXAF	
008C	F1		POP	PSW
008D	CD7400		CALL	A0074
0090	E1		POP	H
0091	E1		POP	H
0092	D9		EXX	
0093	F5		PUSH	PSW
0094	FDCB378E		BIT	5,037H(Y)
0098	2004		JRNZ	A009E
009A	F1		POP	PSW
009B	C30007	A009B:	JMP	A0700
;				
009E	F1	A009E:	POP	PSW
009F	30FA		JRNC	A009B
00A1	FE0D		CPI	00DH
00A3	2B08		JRZ	A00AD
00A5	D7		RST	Z
00A6	B5		ADD	L
00A7	0F		RRC	
00A8	CD0405		CALL	A0504
00AB	3B0F		JRC	A00BC
00AD	CD0405	A00AD:	CALL	A0504
00B0	25		DCR	H
00B1	10EF		DJNZ	A00A2
00B3	09		DAD	B
00B4	34		INR	M
00B5	F1		POP	PSW

PUSH 1Y
EX (SP), HL
WD 1Y, 5C3AH
NOT PAGE OUT -

00B6	27		DAA	
00B7	AE		XRA	M
00B8	14		INR	D
00B9	7A		MOV	A,D
00BA	3818		JRC	A00D4
00BC	08	A00BC:	EXAF	
00BD	DD2A515C		LIXD	Y5C51
00C1	CD8808		CALL	A0688
00C4	E1		POP	H
00C5	E1		POP	H
00C8	18D3		JMPR	A009B
00C8	2A4F5C		LHLD	Y5C4F
00CB	011900		LXI	B,T0019
00CE	08		DAD	B
00CF	ED4B815C		LBCD	Y5C81
00D3	ED42		DSBC	B
00D5	2028		JRNZ	A00FF
00D7	08		DCX	B
00D8	08		DCX	B
00D9	08		DCX	B
00DA	0A		LDAX	B
00DB	D8F7		SUI	0F7H
00DD	2020		JRNZ	A00FF
00DF	3C		INR	A
00E0	0808		MVI	B,008H
00E2	CD510C		CALL	A0C51
00E5	1818		JMPR	A00FF
00E7	FE18		CPI	01BH
00E9	3802		JRC	A00ED
00EB	CF		RST	1
00EC	31323A		LXI	BP,03A32H
00EF	5C		MOV	E,H
00F0	2A5D5C		LHLD	Y5C5D
00F3	225F5C		SHLD	Y5C5F
00FB	FDCB007E		BIT	7,000H(Y)
00FA	323A5C		STA	Y5C3A
00FD	2009		JRNZ	A0108
00FF	CD4305	A00FF:	CALL	A0543
0102	ED7B3D5C		LSPD	Y5C3D
0106	1893		JMPR	A009B
0108	FDCB0D7E	A0108:	BIT	7,00DH(Y)
010C	20F1		JRNZ	A00FF
010E	ED5B815C		LDED	Y5C81
0112	E5		PUSH	H
0113	A7		ANA	A
0114	ED52		DSBC	D
0116	E1		POP	H
0117	30E8		JRNC	A00FF
0119	ED5B585C		LDED	Y5C58
011D	A7		ANA	A
011E	ED52		DSBC	D
0120	3809		JRC	A012B
0122	D7		RST	2
0123	FB		EI	
0124	19		DAD	D
0125	2A5D5C		LHLD	Y5C5D
0128	2B		DCX	H

0129	1809		JMPR	A0134
012B	2A455C	A012B:	LHLD	Y5C45
012E	D7		RST	2
012F	6E		MOV	L,M
0130	19		DAD	D
0131	23		INX	H
0132	23		INX	H
0133	23		INX	H
0134	FD580D	A0134:	MOV	D,00DH(Y)
0137	1E00		MVI	E,000H
0139	D7		RST	2
013A	8B		ADC	E
013B	19		DAD	D
013C	DF		RST	3
013D	2003		JRNZ	A0142
013F	D7		RST	2
0140	A7		ANA	A
0141	11D7BF		LXI	D,0BFD7H
0144	18E7		MVI	D,0E7H
0146	08FF		MVI	B,0FFH
0148	F7		RST	6
0149	02		STAX	B
014A	E5		PUSH	H
014B	E7		RST	4
014C	C9		RET	
014D	FE2A		CPI	'*'
014F	C24E03		JNZ	A034E
0152	DF		RST	3
0153	2806		JRZ	A015B
0155	012200		LXI	B,T0022
0158	D7		RST	2
0159	3000		JRNC	A015B
015B	D5	A015B:	PUSH	D
015C	E7		RST	4
015D	CD5C04		CALL	A045C
0160	CD7B05		CALL	A057B
0163	52		MOV	D,D
0164	0B4C		MVI	B,04CH
0166	38C9		MVI	M,0C9H
0168	D5		PUSH	D
0169	CD7B05		CALL	A057B
016C	9E		SBB	M
016D	06BD		MVI	B,0BDH
016F	DD212500		LXI	X,T0025
0173	DD19		DADX	D
0175	3EC3		MVI	A,0C3H
0177	CD6A02		CALL	A026A
017A	DD23		INX	X
017C	3E1F		MVI	A,01FH
017E	CD6A02		CALL	A026A
0181	E1		PDP	H
0182	A7		ANA	A
0183	ED42		DSBC	B
0185	EB		XCHG	
0186	DDE1		PDP	X
0188	CD9F05		CALL	A059F
018B	E5		PUSH	H
018C	CD3904		CALL	A0439

018F	E1		POP	H
0190	DD460C		MOV	B,00CH(X)
0193	DD4E0B		MOV	C,00BH(X)
0196	C5		PUSH	B
0197	03		INX	B
0198	03		INX	B
0199	03		INX	B
019A	03		INX	B
019B	03		INX	B
019C	03		INX	B
019D	03		INX	B
019E	E5		PUSH	H
019F	225B5C		SHLD	Y5C5B
01A2	D7		RST	2
01A3	2B		DCX	H
01A4	2D		DCR	L
01A5	3A745C		LDA	Y5C74
01A8	A7		ANA	A
01A9	F5		PUSH	PSW
01AA	3E01		MVI	A,001H
01AC	2B01		JRZ	A01AF
01AE	3C		INR	A
01AF	CDED05	A01AF:	CALL	A05ED
01B2	DDE5		PUSH	X
01B4	E1		POP	H
01B5	D7		RST	2
01B6	15		DCR	D
01B7	16F1		MVI	D,0F1H
01B9	E1		POP	H
01BA	C1		POP	B
01BB	DDE5		PUSH	X
01BD	ED5B655C		LDED	Y5C65
01C1	ED52		DSBC	D
01C3	19		DAD	D
01C4	3003		JRNC	A01C9
01C8	2A5B5C		LHLD	Y5C5B
01C9	E5	A01C9:	PUSH	H
01CA	2A615C		LHLD	Y5C61
01CD	A7		ANA	A
01CE	2017		JRNZ	A01E7
01D0	C5		PUSH	B
01D1	010100		LXI	B,T0001
01D4	CD7A02		CALL	A027A
01D7	010A00		LXI	B,T000A
01DA	09		DAD	B
01DB	0E0B		MVI	C,00BH
01DD	CD7A02		CALL	A027A
01E0	C1		POP	B
01E1	E1		POP	H
01E2	CD7A02		CALL	A027A
01E5	1B7B		JMPR	A02B2
01E7	010100	A01E7:	LXI	B,T0001
01EA	CDBC02		CALL	A02BC
01ED	2B02		JRZ	A01F1
01EF	CF		RST	1
01F0	35		DCR	M
01F1	2B	A01F1:	DCX	H
01F2	7E		MOV	A,M
01F3	011100		LXI	B,T0011

01F6	09		DAD	B
01F7	77		MOV	M,A
01F8	F5		PUSH	PSW
01F9	E5		PUSH	H
01FA	0E0B		MVI	C,00BH
01FC	09		DAD	B
01FD	0E0B		MVI	C,00BH
01FF	CD9702		CALL	A0297
0202	DDE1		POP	X
0204	F1		POP	PSW
0205	FE03		CPI	003H
0207	2809		JRZ	A0212
0209	3A745C		LDA	Y5C74
020C	3D		DCR	A
020D	281C		JRZ	A022B
020F	3D		DCR	A
0210	203C		JRNZ	A024E
0212	CD7805	A0212:	CALL	A057B
0215	CB07		RLCR	A
0217	3D		DCR	A
0218	2B		DCX	H
0219	36E1		MVI	M,0E1H
021B	2B		DCX	H
021C	2B		DCX	H
021D	2B		DCX	H
021E	36C9		MVI	M,0C9H
0220	2B		DCX	H
0221	383C		MVI	M,03CH
0223	E1		POP	H
0224	CD9F05		CALL	A059F
0227	2B12		JRZ	A023B
0229	CF	A0229:	RST	1
022A	32CD78		STA	Y78CD
022D	05		DCR	B
022E	0B		EXAF	
022F	0B		EXAF	
0230	AC		XRA	H
0231	21B800		LXI	H,T00BB
0234	19		DAD	D
0235	36C9		MVI	M,0C9H
0237	E1		POP	H
0238	CD9F05		CALL	A059F
023B	DDE5	A023B:	PUSH	X
023D	E1		POP	H
023E	42		MOV	B,D
023F	4B		MOV	C,E
0240	3005		JRNC	A0247
0242	CD9702		CALL	A0297
0245	181B		JMPR	A02B2
0247	CDBC02	A0247:	CALL	A02BC
024A	2816		JRZ	A02B2
024C	CF		RST	1
024D	34		INR	M
024E	CD7805	A024E:	CALL	A057B
0251	B6		ORA	M
0252	0B		EXAF	
0253	0EE1		MVI	C,0E1H
0255	CD9F05		CALL	A059F
0258	42		MOV	B,D

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0259 4B          MOV      C,E
025A E5          PUSH     H
025B CD9702      CALL     A0297
025E E1          POP      H
025F D7          RST      Z
0260 CE08        ACI      00BH
0262 DDE1        A0262:  POP      X
0264 CD7006      CALL     A0670
0267 C3AF03      JMP      A03AF
;
026A DD77D7      A026A:  MOV      0D7H(X),A
026D DD77EB      MOV      0EBH(X),A
0270 DD7737      MOV      037H(X),A
0273 DD7758      MOV      05BH(X),A
0276 DD776C      MOV      0BCH(X),A
0279 C9          RET
;
027A D9          A027A:  EXX
027B DD2A515C    LIXD     Y5C51
027F DD7E04      MOV      A,004H(X)
0282 FB20        ORI      020H
0284 0B00        MVI      B,000H
0286 F7          RST      B
0287 08          EXAF
0288 D9          A0288:  EXX
0289 78          MOV      A,B
028A B1          ORA      C
028B CB          RZ
028C 7E          MOV      A,M
028D Z3          INX      H
028E 0B          DCX      B
028F D9          EXX
0290 E5          PUSH     H
0291 CD7400      CALL     A0074
0294 E1          POP      H
0295 1BF1        JMPR     A0288
;
0297 D9          A0297:  EXX
0298 DD2A515C    LIXD     Y5C51
029C DD7E04      MOV      A,004H(X)
029F FB20        ORI      020H
02A1 0B02        MVI      B,002H
02A3 F7          RST      B
02A4 08          EXAF
02A5 D9          EXX
02A6 78          A02A6:  MOV      A,B
02A7 B1          ORA      C
02A8 CB          RZ
02A9 D9          EXX
02AA E5          A02AA:  PUSH     H
02AB CD7400      CALL     A0074
02AE E1          POP      H
02AF 3006        JRNC     A02B7
02B1 D9          EXX
02B2 77          MOV      M,A
02B3 Z3          INX      H
02B4 0B          DCX      B
02B5 1BEF        JMPR     A02A6
;
02B7 2BF1        A02B7:  JRZ      A02AA

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0289	D7		RST	2
028A	E415D9		CPD	XD915
028D	DD2A515C		LIXD	Y5C51
02C1	DD7E04		MOV	A,004H(X)
02C4	F820		ORI	020H
02C6	0802		MVI	B,002H
02C8	F7		RST	6
02C9	08		EXAF	
02CA	D9		EXX	
02CB	78	A02CB:	MOV	A,B
02CC	B1		DRA	C
02CD	CB		RZ	
02CE	D9		EXX	
02CF	E5	A02CF:	PUSH	H
02D0	CD7400		CALL	A0074
02D3	E1		POP	H
02D4	3007		JRNC	A02DD
02D6	D9		EXX	
02D7	BE		CMP	M
02D8	C0		RNZ	
02D9	23		INX	H
02DA	0B		DCX	B
02DB	18EE		JMPR	A02CB
02DD	28F0	A02DD:	JRZ	A02CF
02DF	D7		RST	2
02E0	E415CD		CPD	XCD15
02E3	5C		MOV	E,H
02E4	04		INR	B
02E5	FECC		CPI	0CCH
02E7	2065		JRNZ	A034E
02E9	DF		RST	3
02EA	2B0A		JRZ	A02FB
02EC	CDD00B		CALL	A08DD
02EF	3E02		MVI	A,002H
02F1	CDED05		CALL	A05ED
02F4	DDE5		PUSH	X
02F6	E7	A02FB:	RST	4
02F7	CD5C04		CALL	A045C
02FA	CD3904		CALL	A0439
02FD	DDE1		POP	X
02FF	DDE5		PUSH	X
0301	CD6606		CALL	A0666
0304	3E01		MVI	A,001H
0306	CDED05		CALL	A05ED
0309	E1		POP	H
030A	E5		PUSH	H
030B	DDE5		PUSH	X
030D	DDE5		PUSH	X
030F	D7	A030F:	RST	2
0310	15		DCR	D
0311	18D7		MVI	D,0D7H
0313	E615		ANI	015H
0315	3012		JRNC	A0329
0317	2A515C		LHLD	Y5C51
031A	E3		XTHL	
031B	F5		PUSH	PSW
031C	D7		RST	2
031D	15		DCR	D
031E	18F1		MVI	D,0F1H

0320	D7		RST	2
0321	F2152A		JP	X2A15
0324	51		MOV	D,C
0325	5C		MOV	E,H
0326	E3		XTHL	
0327	18E6		JMPR	A030F
;				
0329	200E	A0329:	JRNZ	A0339
032B	3EBF		MVI	A,0BFH
032D	DBFE		IN	0FEH
032F	0F		RRC	
0330	38E0		JRC	A0312
0332	3EFE		MVI	A,0FEH
0334	DBFE		IN	0FEH
0336	0F		RRC	
0337	38D9		JRC	A0312
0339	E1	A0339:	POP	H
033A	DDE1		POP	X
033C	CD7006		CALL	A0670
033F	DDE1		POP	X
0341	CD7006		CALL	A0670
0344	1869		JMPR	A03AF
;				
0346	D7		RST	2
0347	82		ADD	D
0348	1C		INR	E
0349	CD4F04		CALL	A044F
034C	2B03		JRZ	A0351
034E	D7	A034E:	RST	2
034F	8A		ADC	D
0350	1C		INR	E
0351	CD5C04	A0351:	CALL	A045C
0354	0601		MVI	B,001H
0356	FEDF		CPI	0DFH
0358	200F		JRNZ	A0369
035A	E7		RST	4
035B	D7		RST	2
035C	48		MOV	C,B
035D	2028		JRNZ	A0387
035F	11C5D7		LXI	D,0D7C5H
0362	82		ADD	D
0363	1C		INR	E
0364	CD3904		CALL	A0439
0367	180F		JMPR	A0378
;				
0369	0603	A0369:	MVI	B,003H
036B	FEBF		CPI	0BFH
036D	2002		JRNZ	A0371
036F	E7		RST	4
0370	05		DCR	B
0371	CD3904	A0371:	CALL	A0439
0374	C5		PUSH	B
0375	CDDD06	A0375:	CALL	A06DD
0378	EF	A0378:	RST	5
0379	05		DCR	B
037A	C5		PUSH	B
037B	02		STAX	B
037C	38CD		JRC	A0348
037E	78		MOV	A,B
037F	05		DCR	B

0380	3617		MVI	M,017H
0382	212B2B		LXI	H,02B2BH
0385	36C9		MVI	M,0C9H
0387	CD9F05	A0387:	CALL	A059F
038A	2B02		JRZ	A03BE
038C	CF		RST	1
038D	2AE5EF		LHLD	YEFES
0390	04		INR	B
0391	E5		PUSH	H
0392	38E1		JRC	A0375
0394	F1		POP	PSW
0395	E5		PUSH	H
0396	CDDED5		CALL	A05ED
0399	E1		POP	H
039A	011B5C		LXI	B,05C18H
039D	A7		ANA	A
039E	ED42		DSBC	B
03A0	09		DAD	B
03A1	3804		JRC	A03A7
03A3	DDCB04AE		RES	5,004H(X)
03A7	EB	A03A7:	XCHG	
03AB	CDD106		CALL	A06D1
03AB	EB		XCHG	
03AC	73		MOV	M,E
03AD	23		INX	H
03AE	72		MOV	M,D
03AF	3EFE	A03AF:	MVI	A,0FEH
03B1	D7		RST	2
03B2	011BFD		LXI	B,0FD16H
03B5	3600		MVI	M,000H
03B7	FF		RST	7
03B8	CD0405		CALL	A0504
03BB	76		HLT	
03BC	1B		DCX	D
03BD	FE23		CPI	023H
03BF	20BD	A03BF:	JRNZ	A034E
03C1	E7		RST	4
03C2	D7		RST	2
03C3	4B		MOV	C,B
03C4	2020		JRNZ	A03E6
03C6	0B		EXAF	
03C7	CD3904		CALL	A0439
03CA	CDB106		CALL	A08B1
03CD	18E0	A03CD:	JMPR	A03AF
03CF	D7		RST	2
03D0	B2		ADD	D
03D1	1C		INR	E
03D2	CD3904		CALL	A0439
03D5	D7		RST	2
03D6	1E17		MVI	E,017H
03D8	76		MOV	A,B
03D9	B1		ORA	C
03DA	2BD3		JRZ	A03AF
03DC	DD2A4F5C		LIXD	Y5C4F
03E0	DD09		DADX	B
03E2	DD2B		DCX	X
03E4	E5		PUSH	H
03E5	CD750B		CALL	A0675
03EB	C33017		JMP	X1730

```

03EB DF RST 3
03EC 2B07 JRZ A03F5
03EE F5 PUSH PSW
03EF 3E02 MVI A,002H
03F1 D7 RST 2
03F2 0116F1 LXI B,0F116H
03F5 D7 A03F5: RST 2
03F6 70 MOV M,B
03F7 20D4 JRNZ A03CD
03F8 4F MOV C,A
03FA 04 INR B
03FB 0600 MVI B,000H
03FD 1806 JMPR A0405
;
03FF 0602 MVI B,002H
0401 1802 JMPR A0405
;
0403 0604 MVI B,004H
0405 C5 A0405: PUSH B
0406 CD5C04 CALL A045C
0408 CD3904 CALL A0439
040C D7 RST 2
040D F1 POP PSW
040E 2B DCX H
040F E1 POP H
0410 D5 PUSH D
0411 C5 PUSH B
0412 1A LDAX D
0413 44 MOV B,H
0414 F7 RST B
0415 0A LDAX B
0416 C1 POP B
0417 D1 POP D
0418 CD7400 CALL A0074
041B 1892 A041B: JMPR A03AF
;
041D FE23 CPI 023H
041F 209E A041F: JRNZ A03BF
0421 E7 RST 4
0422 CD3904 CALL A0439
0425 3E07 MVI A,007H
0427 D7 RST 2
0428 9B SBB E
0429 22328D SHLD Y8D32
042C 5C MOV E,H
042D AF XRA A
042E 328E5C STA Y5C8E
0431 32915C STA Y5C91
0434 D7 RST 2
0435 6B MOV L,E
0436 0D DCR C
0437 18E2 JMPR A041B
;
0439 D7 A0439: RST 2
043A 1800 JMPR A043C
;
043C FE3A A043C: CPI 03AH
043E 2B04 JRZ A0444
0440 FE0D CPI 00DH

```

0442	20DB		JRNZ	A041F
0444	DF	A0444:	RST	3
0445	C0		RNZ	
0446	FD3B00FF		MVI	000H(Y),0FFH
044A	CD0405		CALL	A0504
044D	F41BD7		CP	XD71B
0450	1B00		JMPR	A0452
;				
0452	FE3B	A0452:	CPI	03BH
0454	2B03		JRZ	A0459
0456	FE2C		CPI	02CH
045B	C0		RNZ	
0459	E7	A0459:	RST	4
045A	BF		CMP	A
045B	C9		RET	
;				
045C	FE23	A045C:	CPI	023H
045E	200C		JRNZ	A046C
0460	DF		RST	3
0461	2B03		JRZ	A046B
0463	D7		RST	2
0464	D0		RNC	
0465	35		DCR	M
0466	E7	A0466:	RST	4
0467	D7		RST	2
0468	82		ADD	D
0469	1C		INR	E
046A	1B2B		JMPR	A0497
;				
046C	D7	A046C:	RST	2
046D	FB		EI	
046E	24		INR	H
046F	FDCB017B		BIT	6,001H(Y)
0473	2B0D		JRZ	A0482
0475	DF		RST	3
0476	2B12		JRZ	A048A
047B	AF		XRA	A
0479	D7		RST	2
047A	D0		RNC	
047B	35		DCR	M
047C	EF		RST	5
047D	04		INR	B
047E	013B18		LXI	B,01B3BH
0481	0B		EXAF	
0482	CD4F04	A0482:	CALL	A044F
0485	200D		JRNZ	A0494
0487	D7		RST	2
0488	82		ADD	D
0489	1C		INR	E
048A	CD4F04	A048A:	CALL	A044F
048D	200B		JRNZ	A0497
048F	D7		RST	2
0490	8C		ADC	H
0491	1C		INR	E
0492	1B0B		JMPR	A049A
;				
0494	D7	A0494:	RST	2
0495	E61C		ANI	01CH
0497	D7	A0497:	RST	2
0498	E61C		ANI	01CH

049A	DF	A049A:	RST	3
049B	2805		JRZ	A04A2
049D	0802		MVI	B,002H
049F	CD5000		CALL	A0050
04A2	D7	A04A2:	RST	2
04A3	1800		JMPR	A04A5
		;		
04A5	C8	A04A5:	RET	
		;		
04A6	010300		LXI	B,T0003
04A9	D7		RST	2
04AA	3000		JRNC	A04AC
04AC	D5	A04AC:	PUSH	D
04AD	D7		RST	2
04AE	B6		ORA	M
04AF	2AEF08		LHLD	D08EF
04B2	C0		RNZ	
04B3	02		STAX	B
04B4	C1		POP	B
04B5	02		STAX	B
04B6	0138D7		LXI	B,0D738H
04B9	F1		POP	PSW
04BA	28		DCX	H
04BB	08		DCX	B
04BC	78		MOV	A,B
04BD	B1		ORA	C
04BE	2802		JRZ	A04C2
04C0	CF		RST	1
04C1	28		DAD	H
04C2	1A	A04C2:	LDAX	D
04C3	C8EF		SET	S,A
04C5	E1		POP	H
04C6	77		MOV	M,A
04C7	E5		PUSH	H
04C8	D7		RST	2
04C9	99		SBB	C
04CA	1EE1		MVI	E,0E1H
04CC	23		INX	H
04CD	71		MOV	M,C
04CE	23		INX	H
04CF	70		MOV	M,B
04D0	EF		RST	5
04D1	08E0		MVI	B,0E0H
04D3	E1		POP	H
04D4	17		RAL	
04D5	38C8		JRC	A04A0
04D7	210130	A04D7:	LXI	H,03001H
04DA	CB4E		BIT	1,M
04DC	21FF1F		LXI	H,01FFFFH
04DF	2802		JRZ	A04E3
04E1	23		INX	H
04E2	23		INX	H
04E3	CDF504	A04E3:	CALL	A04F5
04E6	4F		MOV	C,A
04E7	7E	A04E7:	MOV	A,M
04E8	23		INX	H
04E9	23		INX	H
04EA	A7		ANA	A
04EB	2808		JRZ	A04F3
04ED	B8		CMP	C

```

04EE 2803      JRZ      A04F3
04F0 23        INX      H
04F1 18F4      JMPR     A04E7

```

```

04F3 79        A04F3:  MOV     A,C
04F4 48        MOV     C,B
04F5 CDFF04    A04F5:  CALL    A04FF
04F8 0C        INR     C
04F9 CB        RZ
04FA C5        PUSH    B
04FB 0800      MVI     B,000H
04FD 08        DAD     B
04FE C1        POP     B
04FF 56        A04FF:  MOV     D,M      LD D,(HL)
0500 2B        DCX     H      DEC HL
0501 5E        MOV     E,M      LD E,(HL)
0502 EB        XCHG
0503 C9        RET      EX DE,HL

```

```

0504 E1        A0504:  POP     H
0505 5E        MOV     E,M
0506 23        INX     H
0507 56        MOV     D,M
0508 ED7B3D5C  LSPD    Y5C3D
050C D5        PUSH    D
050D C30007    JMP     A0700

```

```

0510 E1        A0510:  POP     H
0511 7E        MOV     A,M
0512 FD7700    MOV     000H(Y),A
0515 CD4305    CALL    A0543
0518 ED7B3D5C  LSPD    Y5C3D
051C E1        POP     H
051D E5        PUSH    H
051E 3E13      MVI     A,013H
0520 BC        CMP     H
0521 381D      JRC     A0540
0523 CD7805    CALL    A0578
0526 03        INX     B
0527 13        INX     D
0528 41        MOV     B,C
0529 CD9F05    CALL    A059F
052C 3D        DCR     A
052D 06FF      MVI     B,0FFH
052F F7        RST     B
0530 04        INR     B

```

```

0531 7E        A0531:  MOV     A,M
0532 E87F      ANI     07FH
0534 D7        RST     2
0535 1000      DJNZ    A0537
0537 CB7E      A0537:  BIT     7,M
0539 23        INX     H
053A 28F5      JRZ     A0531
053C 214913    LXI     H,0134EH
053F E3        XTHL
0540 C30007    A0540:  JMP     A0700

```

```

0543 D7        A0543:  RST     2
0544 C5        PUSH    B
0545 16FD      MVI     D,0FDH

```

L INDIR220 HELD STACK
 PRINT ALL ERROR CODES
 VIEW COPY TO IN ERR-NR

POP HL
 LD A,(HL)
 LD (1140),A

RST 10H

0547	CB02		RLCR	D
0548	9E		SBB	M
054A	3A3A5C		LDA	Y5C3A
054D	FE57		CPI	057H
054F	C8		RZ	
0550	2A4F5C	A0550:	LHLD	Y5C4F
0553	011400		LXI	B,T0014
0556	08	A0558:	DAD	B
0557	E5		PUSH	H
0558	DDE1		POP	X
055A	ED5B535C		LDED	Y5C53
055E	1B		DCX	D
055F	A7		ANA	A
0560	ED52		DSBC	D
0562	C8		RZ	
0563	D2850C		JNC	A0C85
0566	19		DAD	D
0567	DD4E05		MOV	C,005H(X)
056A	DD4E06		MOV	B,006H(X)
056D	DDCB04BE		BIT	5,004H(X)
0571	28E3		JRZ	A0556
0573	CD7506		CALL	A0675
0576	18D8		JMPR	A0550
;				
0578	E1	A0578:	POP	H
0579	5E		MOV	E,M
057A	23		INX	H
057B	58		MOV	D,M
057C	23		INX	H
057D	4E		MOV	C,M
057E	23		INX	H
057F	0B00		MVI	B,000H
0581	E5		PUSH	H
0582	C5		PUSH	B
0583	D5		PUSH	D
0584	CDBD05		CALL	A05BD
0587	E1		POP	H
0588	D5		PUSH	D
0589	D7		RST	Z
058A	C333E1		JMP	XE133
;				
058D	EB		XCHG	
058E	2B		DCX	H
058F	C1		POP	B
0590	C9		RET	
;				
0591	CDBD05	A0591:	CALL	A05BD
0594	E1		POP	H
0595	D5		PUSH	D
0596	0B		DCX	B
0597	2B		DCX	H
0598	EDA0		LDI	
059A	23		INX	H
059B	EDB0		LDIR	
059D	D1		POP	D
059E	E5		PUSH	H
059F	E5	A059F:	PUSH	H
05A0	2A3D5C		LHLD	Y5C3D
05A3	2B		DCX	H
05A4	3BC9		MVI	M,0C9H

05A6	23		INX	H
05A7	E3		XTHL	
05A8	D5		PUSH	D
05A9	C5		PUSH	B
05AA	D1		POP	D
05AB	C1		POP	B
05AC	C5		PUSH	B
05AD	D7		RST	2
05AE	1D		DCR	E
05AF	1C		INR	E
05B0	C1		POP	B
05B1	E3		XTHL	
05B2	D5		PUSH	D
05B3	F5		PUSH	PSW
05B4	50		MOV	D,B
05B5	59		MOV	E,C
05B6	CDDC05		CALL	A05DC
05B9	F1		POP	PSW
05BA	D1		POP	D
05BB	E1		POP	H
05BC	C9		RET	
;				
05BD	D7	A05BD:	RST	2
05BE	05		DCR	B
05BF	1F		RAR	
05C0	210000		LXI	H,T0000
05C3	39		DAD	SP
05C4	54		MOV	D,H
05C5	5D		MOV	E,L
05C6	A7		ANA	A
05C7	ED42		DSBC	B
05C9	F9		SPHL	
05CA	C5		PUSH	B
05CB	E5	A05CB:	PUSH	H
05CC	2A3D5C		LHLD	Y5C3D
05CF	ED52		DSBC	D
05D1	44		MOV	B,H
05D2	4D		MOV	C,L
05D3	E1		POP	H
05D4	EB		XCHG	
05D5	EDB0		LDIR	
05D7	C1		POP	B
05D8	2A3D5C		LHLD	Y5C3D
05DB	C9		RET	
;				
05DC	EB	A05DC:	XCHG	
05DD	1B		DCX	D
05DE	E5		PUSH	H
05DF	37		STC	
05E0	ED72		DSBC	SP
05E2	2B		DCX	H
05E3	44		MOV	B,H
05E4	4D		MOV	C,L
05E5	E1		POP	H
05E6	2B		DCX	H
05E7	EDB8		LDDR	
05E9	13		INX	D
05EA	EB		XCHG	
05EB	F9		SPHL	
05EC	C9		RET	

```

05ED F5      A05ED:  PUSH    PSW
05EE EF      RST      5
05EF 05      DCR      B
05F0 C1      POP      B
05F1 02      STAX     B
05F2 38D7    JRC      A05CB
05F4 F1      POP      PSW
05F5 2B      DCX      H
05F6 C5      PUSH     B
05F7 D5      PUSH     D
05F8 1A      LDAX     D
05F9 0604    MVI      B,004H
05FB F7      RST      6
05FC 08      EXAF
05FD D1      POP      D
05FE C1      POP      B
05FF F1      POP      PSW
0600 E9      PCHL

```

```

0601 D5      A0601:  PUSH     D
0602 C5      PUSH     B
0603 EB      XCHG
0604 23      INX      H
0605 4E      MOV      C,M
0606 23      INX      H
0607 46      MOV      B,M
0608 E8      XCHG
0609 57      MOV      D,A
060A 7C      MOV      A,H
060B CD2206  CALL     A0622
060E C1      POP      B
060F 0B      DCX      B
0610 0B      DCX      B
0611 0B      DCX      B
0612 380B    JRC      A061F
0614 7D      MOV      A,L
0615 C5      PUSH     B
0616 CD2206  CALL     A0622
0619 C1      POP      B
061A 3003    JRNC     A061F
061C D7      RST      2
061D 65      MOV      H,L
061E 17      RAL
061F 7A      A061F:  MOV      A,D
0620 D1      POP      D
0621 C9      RET

```

```

0622 A7      A0622:  ANA      A
0623 F22B06  JP      A062B
0626 2F      CMA
0627 0B      DCX      B
0628 B9      A0628:  CMP      C
0629 D8      RC
062A 78      MOV      A,B
062B A7      ANA      A
062C C8      RZ
062D 37      STC
062E C9      RET

```

062F	C5	A062F:	PUSH	B
0630	F5		PUSH	PSW
0631	ED535F5C		SDED	Y5C5F
0635	2A535C		LHLD	Y5C53
0638	2B		DCX	H
0639	D7		RST	Z
063A	55		MOV	D,L
063B	1623		MVI	D,023H
063D	E5		PUSH	H
063E	DDE1		POP	X
0640	F1		POP	PSW
0641	CD5208		CALL	A0652
0644	54		MOV	D,H
0645	5D		MOV	E,L
0646	2A5F5C		LHLD	Y5C5F
0649	EDA0		LDI	
064B	EB		XCHG	
064C	C1		POP	B
064D	CD6108		CALL	A0661
0650	EB		XCHG	
0651	C9		RET	
;				
0652	DDE5	A0652:	PUSH	X
0654	E1		POP	H
0655	CD5808		CALL	A0658
0658	010800	A0658:	LXI	B,T0008
065B	0F		RRC	
065C	3803		JRC	A0661
065E	01C415		LXI	B,015C4H
0661	71	A0661:	MOV	M,C
0662	23		INX	H
0663	70		MOV	M,B
0664	23		INX	H
0665	C9		RET	
;				
0666	0808	A0666:	MVI	B,008H
0668	DD7E04	A0668:	MOV	A,004H(X)
066B	F820		ORI	020H
066D	F7		RST	6
066E	08		EXAF	
066F	E9		PCHL	
;				
0670	0808	A0670:	MVI	B,008H
0672	CD6808		CALL	A0668
0675	CDD108	A0675:	CALL	A06D1
0678	011400		LXI	B,T0014
067B	A7		ANA	A
067C	ED42		DSBC	B
067E	D8		RC	
067F	09		DAD	B
0680	E5		PUSH	H
0681	DDE5		PUSH	X
0683	E1		POP	H
0684	DD4E05		MOV	C,005H(X)
0687	DD4808		MOV	B,008H(X)
068A	C5		PUSH	B
068B	D7		RST	Z
068C	EB		RPE	
068D	19		DAD	D
068E	CD7805		CALL	A0578

0891	63		MOV	H,E
0892	1623		MVI	D,023H
0894	62		MOV	H,D
0895	68		MOV	L,E
0896	3842		MVI	M,042H
0898	23		INX	H
0899	3848		MVI	M,048H
089B	23		INX	H
089C	23		INX	H
089D	23		INX	H
089E	3816		MVI	M,016H
08A0	23		INX	H
08A1	23		INX	H
08A2	23		INX	H
08A3	3810		MVI	M,010H
08A5	C1		POP	B
08A6	78		MOV	A,B
08A7	2F		CMA	
08A8	47		MOV	B,A
08A9	79		MOV	A,C
08AA	2F		CMA	
08AB	4F		MOV	C,A
08AC	03	A08AC:	INX	B
08AD	E1		POP	H
08AE	C38F05		JMP	A058F
;				
08B1	2A4F5C	A08B1:	LHLD	Y5C4F
08B4	111400		LXI	D,T0014
08B7	19		DAD	D
08B8	EB		XCHG	
08B9	2A535C		LHLD	Y5C53
08BC	2B		DCX	H
08BD	D7		RST	Z
08BE	E5		PUSH	H
08BF	19		DAD	D
08C0	CD7805		CALL	A0578
08C3	7C		MOV	A,H
08C4	12		STAX	D
08C5	0C		INR	C
08C6	CD8F05		CALL	A058F
08C9	AF		XRA	A
08CA	0818		MVI	B,018H
08CC	12	A08CC:	STAX	D
08CD	13		INX	D
08CE	10FC		DJNZ	A08CC
08D0	C9		RET	
;				
08D1	DDE5	A08D1:	PUSH	X
08D3	E1		POP	H
08D4	ED4B4F5C		LBCD	Y5C4F
08D8	A7		ANA	A
08D9	ED42		DSBC	B
08DB	23		INX	H
08DC	C9		RET	
;				
08DD	EF	A08DD:	RST	5
08DE	05		DCR	B
08DF	A1		ANA	C
08E0	1B		DCX	D
08E1	38C9		JRC	A08AC

```

;
ORG      700H
;
0700  C9      A0700:  RET
;

0701  C004      DW      04C0H
0703  C004      DW      04C0H
0705  0B07      DW      070BH
0707  2507      DW      0725H
0709  DD0B      DW      0BDDH
070B  2100      DW      0021H
070D  00      NOP
;

070E  CD010B     CALL    A0B01
0711  3B13      JRC      A072B
0713  DD2A4F5C   LIXD    Y5C4F
0717  1A      LDAX     D
071B  FE70      CPI      070H
071A  DB      RC
071B  010500     LXI      B,T0005
071E  2003      JRNZ     A0723
0720  010F00     LXI      B,T000F
0723  DD0B      A0723:  DADX     B
0725  C9      RET
;

0726  D7      A0726:  RST      2
0727  E7      RST      4
072B  34      INR      M
072B  4B07     DW      074BH
072B  8F07     DW      076FH
072D  3D07     DW      073DH
072F  2507     DW      0725H
0731  DD0B     DW      0BDDH
0733  6707     DW      0767H
0735  7507     DW      0775H
0737  3D07     DW      073DH
0739  2507     DW      0725H
073B  DD0B     DW      0BDDH
073D  2100     DW      0021H
073F  00      NOP
;

0740  CD010B     CALL    A0B01
0743  3BE1      JRC      A072B
0745  010700     LXI      B,T0007
074B  C32F0B     JMP      A0B2F
;

074B  FE0D      CPI      0DH
074D  2007      JRNZ     A075B
074F  CD8707     CALL    A07B7
0752  3E0A      MVI      A,00AH
0754  1B11      JMPR     A07B7
;

075B  FE20      A075B:  CPI      ' '
075B  DB      RC
075B  FEB0      CPI      0B0H
075B  3B0A      JRC      A07B7
075D  DBA5      SUI      0A5H
075F  3B04      JRC      A07B5
0761  D7      RST      2
0762  100C      DJNZ     A0770

```

```

0764 C9 RET
;
0765 3E3F A0765: MVI A,03FH
0767 0800 A0767: MVI B,000H
0769 87 A0769: MOV H,A
076A 3EFF MVI A,0FFH
076C C3510C JMP A0C51
;
076F CD7507 CALL A0775
0772 C8BF RES 7,A
0774 C9 RET
;
0775 0802 A0775: MVI B,002H
0777 18F0 JMPR A07B9
;
0779 9707 DW 0797H
077B A207 DW 07A2H
077D 8307 DW 0783H
077F 2507 DW 0725H
0781 AB07 DW 07ABH
;
0783 21000F LXI H,00F00H
0785 CD0108 CALL A0801
0789 3003 JRNC A07BE
078B D7 RST 2
078C 0E18 MVI C,018H
078E 010800 A078E: LXI B,T0008
0791 CD2F08 CALL A082F
0794 EDA0 LDI
0796 C9 RET
;
0797 F5 PUSH PSW
0798 CDB107 CALL A07B1
079B F1 POP PSW
079C D9 EXX
079D D7 RST 2
079E F215D9 JP XD915
07A1 C9 RET
;
07A2 CDB107 CALL A07B1
07A5 D9 EXX
07A6 D7 RST 2
07A7 E615 ANI 015H
07A9 D9 EXX
07AA C9 RET
;
07AB CDB107 CALL A07B1
07AE C38608 JMP A0868
;
07B1 080F A07B1: MVI B,00FH
07B3 DD7E07 A07B3: MOV A,007H(X)
07B6 D7 RST 2
07B7 0118DD LXI B,0DD18H
07BA 2A515C LHLD Y5C51
07BD DD7E04 MOV A,004H(X)
07C0 F820 ORI 020H
07C2 FE23 CPI 023H
07C4 C0 RNZ
07C5 10EC DJNZ A07B3
07C7 CF RST 1

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DPUS.PRN

07CB	48		MOV	C,B
07CC	02		STAX	B
07CA	08		EXAF	
07CB	48		MOV	C,B
07CC	08		EXAF	
07CD	83		DRA	E
07CE	08		EXAF	
07CF	4D		MOV	C,L
07D0	08		EXAF	
07D1	0D		DCR	C
07D2	08		DAD	B
07D3	F5		PUSH	PSW
;				
07D4	DD7E1E		MOV	A,01EH(X)
07D7	DDB61F		DRA	01FH(X)
07DA	2827		JRZ	A0803
07DC	F1		POP	PSW
07DD	DDE5		PUSH	X
07DF	E1		POP	H
07E0	010700		LXI	B,T0007
07E3	08		DAD	B
07E4	CB8E		BIT	5,M
07E6	2808		JRZ	A07F1
07E8	320F5C		STA	Y5C0F
07EB	7E		MOV	A,M
07EC	EB9F		ANI	08FH
07EE	77		MOV	M,A
07EF	181F		JMPR	A0810
;				
07F1	CB76	A07F1:	BIT	6,M
07F3	2808		JRZ	A07FB
07F5	320E5C		STA	Y5C0E
07F8	CBEE		SET	5,M
07FA	C9		RET	
;				
07FB	FE17	A07FB:	CPI	017H
07FD	2003		JRNZ	A0802
07FF	CBF6		SET	6,M
0801	C9		RET	
;				
0802	F5	A0802:	PUSH	PSW
0803	CDCA0B	A0803:	CALL	A0BCA
0806	D22902		JNC	A0229
0808	F1		POP	PSW
080A	12		STAX	D
080B	DDCB07FE		SET	7,007H(X)
080F	C9		RET	
;				
0810	DD4E08	A0810:	MOV	C,008H(X)
0813	DD4608	A0813:	MOV	B,008H(X)
0816	D7		RST	2
0817	2B		DCX	H
0818	2D		DCR	L
0819	DD4E1E		MOV	C,01EH(X)
081C	DD461F		MOV	B,01FH(X)
081F	D7		RST	2
0820	2B		DCX	H
0821	2D		DCR	L
0822	ED4B0E5C		LB CD	Y5C0E
0826	D7		RST	2

0827	2B	DCX	H
0828	2D	DCR	L
0829	EF	RST	5
082A	0604	MVI	B,004H
082C	01323B	LXI	B,03B32H
082F	D7	RST	Z
0830	99	SSB	C
0831	1EDD	MVI	E,0DDH
0833	6E	MOV	L,M
0834	10DD	DJNZ	A0813
0836	66	MOV	H,M
0837	110944	LXI	D,04409H
083A	4D	MOV	C,L
083B	CD1A0C	CALL	A0C1A
083E	D7	RST	Z
083F	99	SSB	C
0840	1EDD	MVI	E,0DDH
0842	71	MOV	M,C
0843	0A	LDAX	B
0844	DD700B	MOV	00BH(X),B
0847	C9	RET	

0848	CDCA0B	A0848:	CALL	A0BCA
084B	1A		LDAX	D
084C	C9		RET	

084D	DDCB005E		BIT	3,000H(X)
0851	C8		RZ	
0852	DD5E0C		MOV	E,00CH(X)
0855	DD560D		MOV	D,00DH(X)
0858	DD6E0E		MOV	L,00EH(X)
085B	DD660F		MOV	H,00FH(X)
085E	DD4E0A		MOV	C,00AH(X)
0861	DD460B		MOV	B,00BH(X)
0864	0B		DCX	B
0865	A7		ANA	A
0866	ED42		DSBC	B
0868	200B		JRNZ	A0875
086A	DD6E12		MOV	L,012H(X)
086D	DD6B13		MOV	H,013H(X)
0870	A7		ANA	A
0871	ED52		DSBC	D
0873	283B		JRZ	A08B0
0875	DDE5	A0875:	PUSH	X
0877	D5		PUSH	D
0878	C5		PUSH	B
0879	DDE5		PUSH	X
087B	010300		LXI	B,T0003
087E	D7		RST	Z
087F	3000		JRNC	A08B1
0881	3600	A08B1:	MVI	M,000H
0883	2B		DCX	H
0884	DD7E07		MOV	A,007H(X)
0887	E60F		ANI	00FH
0889	77		MOV	M,A
088A	3E03		MVI	A,003H
088C	CD290A		CALL	A0A29
088F	E1		POP	H
0890	111400		LXI	D,T0014
0893	19		DAD	D

0894	EB		XCHG	
0895	010A00		LXI	B,T000A
0898	CD730A		CALL	A0A73
089B	30ZF		JRNC	A0BCC
089D	E1		POP	H
089E	229C5C		SHLD	Y5C9C
08A1	E1		POP	H
08A2	22A05C		SHLD	Y5CA0
08A5	2A0E5C		LHLD	Y5C0E
08AB	CD8D0B		CALL	A0BBD
08AB	CD700B		CALL	A0B70
08AE	DDE1		POP	X
08B0	C3BA0C	A08B0:	JMP	A0CBA
;				
08B3	21F6F1		LXI	H,OF1F6H
08B6	F5		PUSH	PSW
08B7	3E03		MVI	A,003H
08B9	CD340A		CALL	A0A34
08BC	CD730A		CALL	A0A73
08BF	E1		POP	H
08C0	300B		JRNC	A0BCB
08C2	3E02		MVI	A,002H
08C4	CB4C		BIT	1,H
08C8	200B		JRNZ	A0BD3
08CB	CB44	A08CB:	BIT	0,H
08CA	2002		JRNZ	A0BCE
08CC	CF	A08CC:	RST	1
08CD	30CD		JRNC	A0B9C
08CF	B7		ORA	A
08D0	0A		LDAX	B
08D1	3E01		MVI	A,001H
08D3	F5	A08D3:	PUSH	PSW
08D4	CD8A0C		CALL	A0CBA
08D7	F1		POP	PSW
08D8	CD520B		CALL	A0B52
08DB	11AB5C		LXI	D,05CABH
08DE	CDF30B		CALL	A0BF3
08E1	2A9E5C		LHLD	Y5C9E
08E4	2B		DCX	H
08E5	EB		XCHG	
08E6	72		MOV	M,D
08E7	2B		DCX	H
08E8	73		MOV	M,E
08E9	2B		DCX	H
08EA	54		MOV	D,H
08EB	5D		MOV	E,L
08EC	2B		DCX	H
08ED	2B		DCX	H
08EE	EDA8		LDD	
08F0	EDA8		LDD	
08F2	C9		RET	
;				
08F3	DDE5	A08F3:	PUSH	X
08F5	E1		POP	H
08F6	011F00		LXI	B,T001F
08F9	09		DAD	B
08FA	AF		XRA	A
08FB	77		MOV	M,A
08FC	2B		DCX	H
08FD	77		MOV	M,A

08FE	28	DCX	H
08FF	EB	XCHG	
0900	0E10	MVI	C,010H
0902	EDB8	LDDR	
0904	DD7E0F	MOV	A,00FH(X)
0907	EB0F	ANI	00FH
0909	DD770F	MOV	00FH(X),A
090C	C9	RET	

;

; >> NO EXECUTION PATH TO HERE <<

090D	DD4E0E	MOV	C,00EH(X)
0910	DD480F	MOV	B,00FH(X)
0913	03	INX	B
0914	D7	RST	2
0915	2B	DCX	H
0916	2D	DCR	L
0917	DD4E0A	MOV	C,00AH(X)
091A	DD480B	MOV	B,00BH(X)
091D	D7	RST	2
091E	2B	DCX	H
091F	2D	DCR	L
0920	DD4E08	MOV	C,008H(X)
0923	DD4809	MOV	B,009H(X)
0926	D7	RST	2
0927	2B	DCX	H
0928	2D	DCR	L
0929	DD4E12	MOV	C,012H(X)
092C	DD4813	MOV	B,013H(X)
092F	D7	RST	2
0930	2B	DCX	H
0931	2D	DCR	L
0932	DD4E0C	MOV	C,00CH(X)
0935	DD480D	MOV	B,00DH(X)
0938	D7	RST	2
0939	2B	DCX	H
093A	2D	DCR	L
093B	EF	RST	5
093C	0E03	MVI	C,003H
093E	04	INR	B
093F	01030F	LXI	B,00F03H
0942	313B30	LXI	SP,0303BH
0945	00	NOP	
0946	02	STAX	B
0947	3038	JRNC	A0981
0948	C9	RET	

;

094A	5008	DW	0950H
094C	B909	DW	09B9H
094E	E309	DW	09E3H

;

0950	3E02	MVI	A,002H
0952	CD290A	CALL	A0A29
0955	210000	LXI	H,T0000
0958	CD8A09	CALL	A098A
095B	CDAE09	CALL	A09AE
095E	CD8A09	CALL	A098A
0961	30FB	JRNC	A095E
0963	44	MOV	B,H
0964	4D	MOV	C,L
0965	D7	RST	2

A095E:

0966	2B		DCX	H
0967	2D		DCR	L
0968	DD4E0B		MOV	C,00BH(X)
096B	DD4B09		MOV	B,00BH(X)
096E	D7		RST	Z
096F	2B		DCX	H
0970	2D		DCR	L
0971	EF		RST	S
0972	09		DAD	B
0973	04		INR	B
0974	34		INR	M
0975	3B		DCX	SP
0976	00		NOP	
0977	05		DCR	B
0978	3A3BCD		LDA	YCD3B
097B	AE		XRA	M
097C	09		DAD	B
097D	DDE5		PUSH	X
097F	D7		RST	Z
0980	E3		XTHL	
0981	2D	A09B1:	DCR	L
0982	DDE1		POP	X
0984	CD4E09		CALL	A09AE
0987	C3700B		JMP	A0B70
;				
098A	E5	A09BA:	PUSH	H
098B	CD7C0B		CALL	A0B7C
098E	E1		POP	H
098F	ED5B9E5C		LDED	Y5C9E
0993	19		DAD	D
0994	ED5BA05C		LDED	Y5CA0
099B	7A		MOV	A,D
0999	A3		ANA	E
099A	3C		INR	A
099B	37		STC	
099C	C8		RZ	
099D	ED52		DSBC	D
099F	11A25C		LXI	D,05CA2H
09A2	1A		LDAX	D
09A3	A7		ANA	A
09A4	C8		RZ	
09A5	0B0A		MVI	B,00AH
09A7	CDB009	A09A7:	CALL	A09B0
09AA	13		INX	D
09AB	1A		LDAX	D
09AC	10F9		DJNZ	A09A7
09AE	3E0D	A09AE:	MVI	A,00DH
09B0	DDE5	A09B0:	PUSH	X
09B2	D7		RST	Z
09B3	F215DD		JP	XDD15
09B6	E1		POP	H
09B7	A7		ANA	A
09B8	C8		RET	
;				
09B9	3E03		MVI	A,003H
09BB	21F6F1		LXI	H,0F1F6H
09BE	CD2C0A		CALL	A0A2C
09C1	CD730A		CALL	A0A73
09C4	D2CC0B		JNC	A0BCC
09C7	2A0E5C		LHLD	Y5C0E

09CA	E5		PUSH	H
09CB	23	A09CB:	INX	H
09CC	E5		PUSH	H
09CD	CD7C0B		CALL	A0B7C
09DD	2AA05C		LHLD	Y5CA0
09D3	7C		MOV	A,H
09D4	A5		ANA	L
09D5	3C		INR	A
09D6	E1		POP	H
09D7	20F2		JRNZ	A09CB
09D9	220E5C		SHLD	Y5C0E
09DC	E1		POP	H
09DD	CD8D0B		CALL	A0B8D
09E0	C3700B		JMP	A0B70
;				
09E3	21F6F1		LXI	H,0F1FBH
09E6	CD010B		CALL	A0B01
09E9	DA390A		JC	A0A39
09EC	13		INX	D
09ED	1A		LDAX	D
09EE	13		INX	D
09EF	13		INX	D
09F0	CD6C0B		CALL	A0B6C
09F3	F5		PUSH	PSW
09F4	0B04		MVI	B,004H
09F6	CD510C		CALL	A0C51
09F9	0B		DCX	B
09FA	ED439C5C		SBCD	Y5C9C
09FE	ED43AC5C		SBCD	Y5CAC
0A02	22AE5C		SHLD	Y5CAE
0A05	210300		LXI	H,T0003
0A08	22A05C		SHLD	Y5CA0
0A0B	6C		MOV	L,H
0A0C	229E5C		SHLD	Y5C9E
0A0F	2B		DCX	H
0A10	22B05C		SHLD	Y5CB0
0A13	F1		POP	PSW
0A14	0B00		MVI	B,000H
0A16	210000		LXI	H,T0000
0A19	119C5C		LXI	D,05C9CH
0A1C	C3510C		JMP	A0C51
;				
0A1F	D307		DW	07D3H
0A21	4B0B		DW	0B4BH
0A23	2B0A		DW	0A2BH
0A25	6A0C		DW	0CBAH
0A27	0D09		DW	0B0DH
;				
0A29	2100F1	A0A29:	LXI	H,0F100H
0A2C	CD340A	A0A2C:	CALL	A0A34
0A2F	DD3804EF		MVI	004H(X),0EFH
0A33	C9		RET	
;				
0A34	CD010B	A0A34:	CALL	A0B01
0A37	3002		JRNC	A0A3B
0A39	CF	A0A39:	RST	1
0A3A	2B		DCX	H
0A3B	C5	A0A3B:	PUSH	B
0A3C	F5		PUSH	PSW
0A3D	D5		PUSH	D

0A3E	EB		XCHG	
0A3F	23		INX	H
0A40	7E		MOV	A,M
0A41	0B0B		MVI	B,00BH
0A43	CD510C		CALL	A0C51
0A46	212000		LXI	H,T0020
0A49	09		DAD	B
0A4A	D1		POP	D
0A4B	F1		POP	PSW
0A4C	C5		PUSH	B
0A4D	44		MOV	B,H
0A4E	4D		MOV	C,L
0A4F	CD2F0B		CALL	A0B2F
0A52	EDA0		LDI	
0A54	E3		XTHL	
0A55	EB		XCHG	
0A56	73		MOV	M,E
0A57	23		INX	H
0A58	72		MOV	M,D
0A59	AF		XRA	A
0A5A	23		INX	H
0A5B	77		MOV	M,A
0A5C	23		INX	H
0A5D	77		MOV	M,A
0A5E	23		INX	H
0A5F	77		MOV	M,A
0A60	23		INX	H
0A61	77		MOV	M,A
0A62	E5		PUSH	H
0A63	CD3E0C		CALL	A0C3E
0A66	E1		POP	H
0A67	012200		LXI	B,T0022
0A6A	09		DAD	B
0A6B	EB		XCHG	
0A6C	CDF30B		CALL	A0BF3
0A6F	D1		POP	D
0A70	13		INX	D
0A71	C1		POP	B
0A72	C9		RET	
;				
0A73	D5	A0A73:	PUSH	D
0A74	C5		PUSH	B
0A75	DD361E10		MVI	01EH(X),010H
0A79	210100		LXI	H,T0001
0A7C	220E5C		SHLD	Y5C0E
0A7F	CD100B		CALL	A0B10
0A82	CD7C0B	A0AB2:	CALL	A0B7C
0A85	FD34D4		INR	0D4H(Y)
0A88	2AA05C		LHLD	Y5CA0
0A8B	7C		MOV	A,H
0A8C	A3		ANA	L
0A8D	3C		INR	A
0A8E	C1		POP	B
0A8F	D1		POP	D
0A90	C8		RZ	
0A91	D5		PUSH	D
0A92	C5		PUSH	B
0A93	21A25C		LXI	H,05CA2H
0A96	1A	A0A96:	LDAX	D
0A97	EDA1		CCI	

0A99	20E7		JRNZ	A0AB2
0A9B	13		INX	D
0A9C	E980A		JPE	A0A96
0A9F	3E20		MVI	A,020H
0AA1	EB	A0AA1:	XCHG	
0AA2	21AC5C		LXI	H,05CACH
0AA5	37		STC	
0AA6	ED52		DSBC	D
0AA8	3807		JRC	A0AB1
0AAA	EB		XCHG	
0AAB	EDA1		CCI	
0AAD	20E7		JRNZ	A0A96
0AAF	1BF0		JMPR	A0AA1
0AB1	C1	A0AB1:	POP	B
0AB2	D1		POP	D
0AB3	FD35D4		DCR	0D4H(Y)
0AB6	C9		RET	
0AB7	2A0E5C		LHLD	Y5C0E
0ABA	E5		PUSH	H
0ABB	D5		PUSH	D
0ABC	C5		PUSH	B
0ABD	CD100B		CALL	A0B10
0AC0	CD7C0B		CALL	A0B7C
0AC3	FD36D400		MVI	0D4H(Y),000H
0AC7	CD100B		CALL	A0B10
0ACA	CD7C0B		CALL	A0B7C
0ACD	010000		LXI	B,T0000
0AD0	C5		PUSH	B
0AD1	08		DCX	B
0AD2	2AA05C	A0AD2:	LHLD	Y5CA0
0AD5	7C		MOV	A,H
0ADB	A5		ANA	L
0AD7	3C		INR	A
0ADB	2B1E		JRZ	A0AFB
0ADA	E5		PUSH	H
0ADB	03		INX	B
0ADC	C5		PUSH	B
0ADD	CD7C0B		CALL	A0B7C
0AE0	C1		POP	B
0AE1	2A8E5C		LHLD	Y5C9E
0AE4	D1		POP	D
0AE5	A7		ANA	A
0AEB	ED52		DSBC	D
0AEB	D1		POP	D
0AEB	D5		PUSH	D
0AEA	EB		XCHG	
0AEB	A7		ANA	A
0AEC	ED52		DSBC	D
0AEE	30E2		JRNC	A0AD2
0AF0	E1		POP	H
0AF1	D5		PUSH	D
0AF2	ED430E5C		SBCD	Y5C0E
0AF6	18DA		JMPR	A0AD2
0AFB	C1	A0AFB:	POP	B
0AFB	0B		DCX	B
0AFA	D7		RST	Z
0AFB	2B		DCX	H

0AFC	2D	DCR	L
0AFD	DD4E08	MOV	C,00BH(X)
0B00	DD4808	MOV	B,00BH(X)
0B03	D7	RST	Z
0B04	2B	DCX	H
0B05	2D	DCR	L
0B06	EF	RST	S
0B07	ZZC001	SHLD	D01C0
0B0A	E1	POP	H
0B0B	37	STC	
0B0C	00	NOP	
0B0D	0C	INR	C
0B0E	AZ	ANA	D
0B0F	04	INR	B
0B10	3A3130	LDA	Y3031
0B13	00	NOP	
0B14	13	INX	D
0B15	E0	RPO	
0B16	04	INR	B
0B17	33	INX	SP
0B18	08	EXAF	
0B19	04	INR	B
0B1A	E1	POP	H
0B1B	03	INX	B
0B1C	3B00	MVI	M,000H
0B1E	08	DAD	B
0B1F	E1	POP	H
0B20	A1	ANA	C
0B21	03	INX	B
0B22	E0	RPO	
0B23	3238A7	STA	YA738
0B26	C8	RET	
0B27	3830	JRC	A0B59
0B29	02	STAX	B
0B2A	CF	RST	1
0B2B	2E	DB	2EH
0B2C	CD1008	DJNZ	A0B37
0B2F	CD7C08	CALL	A0B7C
0B32	2AA05C	LHLD	Y5CA0
0B35	23	INX	H
0B36	229E5C	SHLD	Y5C9E
0B39	E5	PUSH	H
0B3A	D7	RST	Z
0B3B	99	SBB	C
0B3C	1E	DB	1EH
0B3D	E1	POP	H
0B3E	08	DAD	B
0B3F	22A05C	SHLD	Y5CA0
0B42	D7	RST	Z
0B43	99	SBB	C
0B44	1E	DB	1EH
0B45	ED439C5C	SBCD	Y5C9C
0B49	C1	POP	B
0B4A	D1	POP	D
0B4B	CD8C08	CALL	A0B6C
0B4E	011000	LXI	B,T0010
0B51	D7	RST	Z
0B52	3000	JRNC	A0B54

0B54	219C5C	A0B54:	LXI	H,05C9CH
0B57	EDB0		LDIR	
0B59	FD34D4	A0B59:	INR	0D4H(Y)
0B5C	E1		POP	H
0B5D	D5		PUSH	D
0B5E	CD8D0B		CALL	A0B8D
0B61	E1		POP	H
0B62	2B		DCX	H
0B63	011000		LXI	B,T0010
0B66	11AB5C		LXI	D,05CABH
0B69	EDB8		LDDR	
0B6B	C9		RET	
;				
0B6C	C5	A0B6C:	PUSH	B
0B6D	21AC5C		LXI	H,05CACH
0B70	060A		MVI	B,00AH
0B72	2B	A0B72:	DCX	H
0B73	3620		MVI	M,020H
0B75	10FB		DJNZ	A0B72
0B77	C1		POP	B
0B78	E8		XCHG	
0B79	EDB0		LDIR	
0B7B	C9		RET	
;				
0B7C	219C5C	A0B7C:	LXI	H,05C9CH
0B7F	0610		MVI	B,010H
0B81	C5	A0B81:	PUSH	B
0B82	E5		PUSH	H
0B83	CDC40B		CALL	A0BC4
0B86	E1		POP	H
0B87	77		MOV	M,A
0B88	23		INX	H
0B89	C1		POP	B
0B8A	10F5		DJNZ	A0BB1
0B8C	C9		RET	
;				
0B8D	E5	A0B8D:	PUSH	H
0B8E	ED5B0E5C		LDED	Y5C0E
0B92	A7		ANA	A
0B93	ED52		DSBC	D
0B95	3003		JRNC	A0B9A
0B97	FD35D4	A0B97:	DCR	0D4H(Y)
0B9A	CD100B	A0B9A:	CALL	A0B10
0B9D	219C5C	A0B9D:	LXI	H,05C9CH
0BA0	0610		MVI	B,010H
0BA2	C5	A0BA2:	PUSH	B
0BA3	E5		PUSH	H
0BA4	CDC40B		CALL	A0BC4
0BA7	E1		POP	H
0BA8	46		MOV	B,M
0BA9	77		MOV	M,A
0BAA	23		INX	H
0BAB	7B		MOV	A,B
0BAC	12		STAX	D
0BAD	DDCB07FE		SET	7,007H(X)
0BB1	C1		POP	B
0BB2	10EE		DJNZ	A0BA2
0BB4	2A0E5C		LHLD	Y5C0E
0BB7	D1		POP	D
0BB9	A7		ANA	A

0BB9	ED52		DSBC	D
0BBB	C8		RZ	
0BBC	D5		PUSH	D
0BBD	30DB		JRNC	A0B97
0BBF	FD34D4		INR	0D4H(Y)
0BC2	1BD9		JMPR	A0B9D
;				
0BC4	CD480B	A0BC4:	CALL	A0B48
0BC7	DB		RC	
0BCB	CF		RST	1
0BC9	2EDD		MVI	L,0DDH
0BCB	5E		MOV	E,M
0BCC	0A		LDAX	B
0BCD	DD580B		MOV	D,00BH(X)
0BD0	DD4E0C		MOV	C,00CH(X)
0BD3	DD480D		MOV	B,00DH(X)
0BD6	DD8E12		MOV	L,012H(X)
0BD9	DD8813		MOV	H,013H(X)
0BDC	A7		ANA	A
0BD0	ED42		DSBC	B
0BDF	3F		CMC	
0BE0	D0		RNC	
0BE1	200B		JRNZ	A0BEE
0BE3	DD8E0E		MOV	L,00EH(X)
0BE6	DD880F		MOV	H,00FH(X)
0BE9	A7		ANA	A
0BEA	ED52		DSBC	D
0BEC	3F		CMC	
0BED	D0		RNC	
0BEE	D5	A0BEE:	PUSH	D
0BEF	DD8E0B		MOV	L,00BH(X)
0BF2	DD880B		MOV	H,00BH(X)
0BF5	37		STC	
0BF6	ED52		DSBC	D
0BF8	300B		JRNC	A0C03
0BFA	03		INX	B
0BFB	CD1A0C		CALL	A0C1A
0BFE	110000		LXI	D,T0000
0C01	C1		POP	B
0C02	D5		PUSH	D
0C03	CD100C	A0C03:	CALL	A0C10
0C06	C1		POP	B
0C07	03		INX	B
0C08	DD710A		MOV	00AH(X),C
0C08	DD700B		MOV	00BH(X),B
0C0E	37		STC	
0C0F	C9		RET	
;				
0C10	DDE5	A0C10:	PUSH	X
0C12	E1		POP	H
0C13	19		DAD	D
0C14	112000		LXI	D,T0020
0C17	19		DAD	D
0C18	EB		XCHG	
0C19	C9		RET	
;				
0C1A	DD8E0C	A0C1A:	MOV	L,00CH(X)
0C1D	DD880D		MOV	H,00DH(X)
0C20	A7		ANA	A
0C21	ED42		DSBC	B

0C23	C8		RZ	
0C24	C5		PUSH	B
0C25	CD8A0C		CALL	A0C6A
0C28	C1		POP	B
0C29	DB710C		MOV	00CH(X),C
0C2C	DD700D		MOV	00DH(X),B
0C2F	DDCB025E		BIT	3,002H(X)
0C33	C8		RZ	
0C34	DD8E12		MOV	L,012H(X)
0C37	DD8813		MOV	H,013H(X)
0C3A	A7		ANA	A
0C3B	ED42		DSBC	B
0C3D	DB		RC	
0C3E	0B02	A0C3E:	MVI	B,002H
0C40	110000	A0C40:	LXI	D,T0000
0C43	CD100C		CALL	A0C10
0C46	DD8E0C		MOV	L,00CH(X)
0C49	DD880D		MOV	H,00DH(X)
0C4C	DD7E07		MOV	A,007H(X)
0C4F	EG0F		ANI	00FH
0C51	DBE5	A0C51:	PUSH	X
0C53	CD580C		CALL	A0C59
0C56	DDE1		POP	X
0C58	C8		RET	
;				
0C59	E5	A0C59:	PUSH	H
0C5A	D5		PUSH	D
0C5B	C5		PUSH	B
0C5C	0BFF		MVI	B,0FFH
0C5E	F7		RST	6
0C5F	0EE5		MVI	C,0E5H
0C61	DDE1		POP	X
0C63	C1		POP	B
0C64	F7		RST	6
0C65	0C		INR	C
0C66	D1		POP	D
0C67	E3		XTHL	
0C68	7C		MOV	A,H
0C69	C8		RET	
;				
0C6A	DDCB077E	A0C6A:	BIT	7,007H(X)
0C6E	C8		RZ	
0C6F	0B00		MVI	B,000H
0C71	CD400C		CALL	A0C40
0C74	DDCB07BE		RES	7,007H(X)
0C78	C8		RET	
;				
0C79	810C		DW	0CB1H
0C7B	870C		DW	0CB7H
0C7D	470D		DW	0D47H
0C7F	470D		DW	0D47H
;				
0C81	0EAO		MVI	C,0A0H
0C83	1804		JMPR	A0C89
;				
0C85	CF	A0C85:	RST	1
0C86	57		MOV	D,A
0C87	0E80		MVI	C,080H
0C89	C5	A0C89:	PUSH	B
0C8A	D5		PUSH	D

DPUS . PRN

0C8B	D9	EXX	
0C8C	C5	PUSH	B
0C8D	D5	PUSH	D
0C8E	E5	PUSH	H
0C8F	D9	EXX	
0C90	DD4E04	MOV	C,004H(X)
0C93	DD4605	MOV	B,005H(X)
0C96	09	DAD	B
0C97	38EC	JRC	A0CB5
0C99	44	MOV	B,H
0C9A	4D	MOV	C,L
0C9B	D7	RST	2
0C9C	2B	DCX	H
0C9D	2D	DCR	L
0C9E	DD7E01	MOV	A,001H(X)
0CA1	D7	RST	2
0CA2	282D	JRZ	A0CD1
0CA4	D7	RST	2
0CA5	A0	ANA	B
0CA8	36DD	MVI	M,0DDH
0CAB	7E	MOV	A,M
0CAB	00	NOP	
0CAA	D7	RST	2
0CAB	282D	JRZ	A0CDA
0CAD	D7	RST	2
0CAE	A0	ANA	B
0CAF	36D7	MVI	M,0D7H
0CB1	94	SUB	H
0CB2	1EA7	MVI	E,0A7H
0CB4	210030	LXI	H,03000H
0CB7	280D	JRZ	A0CCB
0CB9	3D	DCR	A
0CBA	20C9	JRNZ	A0CB5
0CBC	DDCB0266	BIT	4,002H(X)
0CC0	28C3	JRZ	A0CB5
0CC2	CBES	SET	4,M
0CC4	1802	JMPR	A0CCB
0CC6	CBAB	A0CCB: RES	4,M
0CC8	D7	A0CCB: RST	2
0CC9	07	RLC	
0CCA	23	INX	H
0CCB	79	MOV	A,C
0CCC	CD4000	CALL	A0040
0CCF	78	MOV	A,B
0CD0	D9	EXX	
0CD1	E1	A0CD1: POP	H
0CD2	D1	POP	D
0CD3	C1	POP	B
0CD4	D9	EXX	
0CD5	D1	POP	D
0CD6	E1	POP	H
0CD7	87	MOV	H,A
0CD8	CD8E0D	CALL	A0DBE
0CDB	C5	A0CDB: PUSH	B
0CDC	E5	PUSH	H
0CDD	210030	LXI	H,03000H
0CE0	3A0030	LDA	Y3000
0CE3	EBD0	ANI	0D0H
0CE5	47	MOV	B,A

0CEB	DD7E02		MOV	A,002H(X)
0CE9	EG2F		ANI	02FH
0CEB	B0		ORA	B
0CEC	BE		CMP	M
0CED	2B11		JRZ	A0D00
0CEF	77		MOV	M,A
0CF0	DD7E0B		MOV	A,00BH(X)
0CF3	3C		INR	A
0CF4	2B07		JRZ	A0CFD
0CFB	3D		DCR	A
0CF7	2F		CMA	
0CFB	32013B		STA	Y3B01
0CFB	1B03		JMPR	A0D00
0CFD	CD9F0D	A0CFD:	CALL	A0D9F
0D00	E1	A0D00:	POP	H
0D01	DD4B0B		MOV	B,00BH(X)
0D04	0E14		MVI	C,014H
0D0B	7C	A0D0B:	MOV	A,H
0D07	2F		CMA	
0D0B	32033B		STA	Y3B03
0D0B	CDA10D		CALL	A0DA1
0D0E	EB1B		ANI	01BH
0D10	2B0B		JRZ	A0D1B
0D12	C5		PUSH	B
0D13	CD9F0D		CALL	A0D9F
0D1B	C1		POP	B
0D17	10ED		DJNZ	A0D0B
0D1B	CF		RST	1
0D1A	2F		CMA	
0D1B	C1	A0D1B:	POP	B
0D1C	DD8B0B		MOV	H,00BH(X)
0D1F	DD7E07	A0D1F:	MOV	A,007H(X)
0D22	EB04		ANI	004H
0D24	B5		ORA	L
0D25	C5		PUSH	B
0D2B	D5		PUSH	D
0D27	E5		PUSH	H
0D2B	21EB0D		LXI	H,TODEB
0D2B	CB6F		BIT	5,A
0D2D	2B02		JRZ	A0D31
0D2F	2EF5		MVI	L,0F5H
0D31	F3	A0D31:	DI	
0D32	CDB40D		CALL	A0DB4
0D35	FB		EI	
0D3B	E1		POP	H
0D37	D1		POP	D
0D3B	C1		POP	B
0D39	EB7C		ANI	07CH
0D3B	C8		RZ	
0D3C	EB40		ANI	040H
0D3E	2B02		JRZ	A0D42
0D40	CF		RST	1
0D41	2D		DCR	L
0D42	25	A0D42:	DCR	H
0D43	20DA		JRNZ	A0D1F
0D45	CF		RST	1
0D4B	2F		CMA	
0D47	210130		LXI	H,03001H
0D4A	CB4E		BIT	1,M

OPUS . PRN

0D4C	2B21		JRZ	A0D6F
0D4E	F5		PUSH	PSW
0D4F	2B		DCX	H
0D50	CBAB		RES	4,M
0D52	AF		XRA	A
0D53	CD4000		CALL	A0040
0D56	01B000		LXI	B,T00B0
0D59	11B027		LXI	D,027B0H
0D5C	21B000		LXI	H,T00B0
0D5F	CDDB0C		CALL	A0CDB
0D62	F1		PDP	PSW
0D63	A7	A0D63:	ANA	A
0D64	2AB027		LHLD	X27B0
0D67	11EBFA		LXI	D,0FAEBH
0D6A	ED5A		DADC	D
0D6C	CCB027		CZ	X27B0
0D6F	2B00	A0D6F:	MVI	H,000H
0D71	DD8E00		MOV	L,000H(X)
0D74	54		MOV	D,H
0D75	DD5E01		MOV	E,001H(X)
0D78	DDCB02B6		MOV	4,002H(X)
0D7C	2B04		BIT	A0DB2
0D7E	CB25		JRZ	L
0D80	CB14		SLAR	H
0D82	D7	A0DB2:	RALR	Z
0D83	AB		RST	C
0D84	30DD		XRA	A0DB3
0D86	4E		JRNC	C,M
0D87	04		MOV	B
0D88	DD4B05		INR	B,005H(X)
0D8B	A7		MOV	A
0D8C	ED42		ANA	B
0D8E	DD7E02	A0D8E:	DSBC	A,002H(X)
0D91	EB00		MOV	0C0H
0D93	014000		ANI	B,A0040
0D96	CB21	A0D96:	LXI	C
0D98	CB10		SLAR	B
0D9A	DB40		RALR	040H
0D9C	30FB		SUI	A0D98
0D9E	CB		JRNC	
			RET	
0D9F	0E00	A0D9F:		
0DA1	DD7E07	A0DA1:	MVI	C,000H
0DA4	EB0B		MOV	A,007H(X)
0DA6	B1		ANI	00BH
0DA7	CD840D		DRA	C
0DAA	F5		CALL	A0DB4
0DAB	3A013B		PUSH	PSW
0DAE	2F		LDA	Y3B01
0DAF	DD770B		CMA	
0DB2	F1		MOV	00BH(X),A
0DB3	CB		PDP	PSW
			RET	
0DB4	2F	A0DB4:		
0DB5	32003B		CMA	Y3B00
0DB8	AF		STA	A
0DB9	3D	A0DB9:	XRA	A
0DBA	20FD		DCR	A
0DBC	CDCB0D	A0DBC:	JRNZ	A0DB9
0DBF	3A003B		CALL	A0DCB
			LDA	Y3B00

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ODC2  2F          CMA
ODC3  CB47        BIT      0,A
ODC5  20F5        JRNZ     AODBC
ODC7  C9          RET

;
ODCB  3EFE        AODCB:  MVI      A,0FEH
ODCA  DBFE        IN       OFEH
ODCC  0F          RRC
ODCD  D8          RC
ODCE  3E7F        MVI      A,07FH
ODD0  DBFE        IN       OFEH
ODD2  0F          RRC
ODD3  D8          RC
ODD4  3A0030      LDA       Y3000
ODD7  EBFO        ANI      OFOH
ODD9  320030      STA       Y3000
ODDC  3E2F        MVI      A,02FH
ODDE  320038      STA       Y3800
ODE1  FB          EI
ODE2  76          HLT
ODE3  D7          RST      2
ODE4  52          MOV      D,D
ODE5  05          DCR      B
ODE6  08          TODE6:  EXAF
ODE7  78          MOV      A,B
ODE8  B1          ORA      C
ODE9  3A0338      LDA       Y3803
ODEC  2804        JRZ      AODF2
ODEE  2F          CMA
ODEF  12          STAX     D
ODF0  13          AODF0:  INX      D
ODF1  0B          DCX      B
ODF2  08          AODF2:  EXAF
ODF3  ED45        RETN

;
ODF5  0B          EXAF
ODF6  1A          LDAX     D
ODF7  2F          CMA
ODF8  320338      STA       Y3803
ODFB  18F3        JMPR     AODF0

;
ODFD  010E1E      LXI      B,01E0EH
OE00  0E21        MVI      C,021H
OE02  03          INX      B
OE03  3036        JRNC     X0E3B
OE05  382B        JRC      A0E32
OE07  38FF        MVI      M,0FFH
OE09  23          INX      H
OE0A  363C        MVI      M,03CH
OE0C  2B          DCX      H
OE0D  77          MOV      M,A
OE0E  CDC80D      A0E0E:  CALL     AODCB
OE11  3A0030      LDA       Y3000
OE14  CB77        BIT      B,A
OE16  20F6        JRNZ     A0E0E
OE18  23          INX      H
OE19  3634        MVI      M,034H
OE1B  363C        MVI      M,03CH
OE1D  C9          RET

```

0E1E	CDC80D	CALL	A0DCB
0E21	210330	LXI	H,03003H
0E24	AF	XRA	A
0E25	77	MOV	M,A
0E26	2B	DCX	H
0E27	77	MOV	M,A
0E28	23	INX	H
0E29	3B04	MVI	M,004H
0E2B	CB7B	BIT	B,M
0E2D	CB	RZ	
0E2E	2B	DCX	H
0E2F	7E	MOV	A,M
0E30	2B	DCX	H
0E31	CB9E	RES	3,M
0E33	44	MOV	B,H
0E34	10FE	A0E34: DJNZ	A0E34
0E36	37	STC	
0E37	CBDE	SET	3,M
0E39	CB	RET	

; UNRESOLVED LABELS

; T0003	T0005	T000A	T000F	T001B	T0022	A00A2
; A00D4	A00ED	A0142	D01C0	A022B	A02BC	A0312
; A034B	A03BE	A03EB	A044F	A04A0	A0770	A089C
; A08CE	D08EF	A0B37	A0BCA	A0CDA	A0E32	

X03FF	EQU	003FFH
X062F	EQU	0062FH
X0670	EQU	00670H
X0700	EQU	00700H
X19BD	EQU	019BDH
Y202B	EQU	0202BH
X351B	EQU	0351BH
Y3800	EQU	03800H

; ORG 01708H

1708	00	NOP	
1709	2B	DCX	H
170A	E3	XTHL	
170B	F3	PUSH	PSW
170C	D5	PUSH	D
170D	E5	PUSH	H
170E	11EAA3	LXI	D,0A3EAH
1711	19	DAD	D
1712	300B	JRNC	A171A
1714	11E0FF	LXI	D,0FFE0H
1717	19	DAD	D
1718	3005	JRNC	A171F
171A	E1	POP	H
171B	D1	POP	D
171C	F1	POP	PSW
171D	E3	XTHL	
171E	CB	RET	
; BACK A171A:			
171F	E1	POP	H
1720	D1	POP	D
1721	F1	POP	PSW
1722	E3	XTHL	
1723	7B	MOV	A,B
; CONTIN A171F:			

DEC	HL
EX	(SP),HL
PUSH	AF
PUSH	DE
PUSH	HL
LD	DE, A3EAH
ADD	HL, DE
JR	NC, BACK
LD	DE, FFE0H
ADD	HL, DE
JR	NC, CONTIN
POP	HL
POP	DE
POP	AF
EX	(SP),HL
RET	

POP	HL
POP	DE
POP	AF
EX	(SP),HL
LD	A,B

1724	B1		ORA	C	OR C
1725	280D		JRZ	A1734	JR Z, CONT 2
1727	2B		DCX	H	DEC HL
1728	2B		DCX	H	DEC HL
1729	2B		DCX	H	DEC HL
172A	E5		PUSH	H	PUSH HL
172B	DDE1		POP	X	POP IX
172D	CD700B		CALL	X0B70	CALL 640
1730	E1		POP	H	POP HL
1731	D7		RST	Z	RST 10
1732	EB		XCHG		CX HL, DE
1733	1B		DB	1BH	
1734	C3AF03	GA12 A1734:	JMP	A03AF	
1737	210220	X1734:	LXI	H, 02002H	
173A	222B20		SHLD	Y202B	
173D	21CA17		LXI	H, T17CA	
1740	110020		LXI	D, 02000H	
1743	012B00		LXI	B, 0002BH	43 ELEMENTI
1746	EDB0		LDIR		
1748	062B		MVI	B, 02BH	
174A	2B	A174A:	DCX	H	
174B	1B		DCX	D	
174C	1A		LDAX	D	
174D	BE		CMP	M	
174E	3E3C		MVI	A, 03CH	
1750	2004		JRNZ	A1756	
1752	10FB		DJNZ	A174A	
1754	CBCF		SET	1, A	
1756	210130	A1756:	LXI	H, 03001H	
1759	71		MOV	M, C	$\phi \rightarrow 3001$
175A	2B		DCX	H	
175B	3B3F		MVI	M, 03FH	3F $\rightarrow$ 3000
175D	23		INX	H	
175E	77		MOV	M, A	A $\rightarrow$ 3004
175F	2B		DCX	H	
1760	71		MOV	M, C	$\phi \rightarrow 3000$
1761	3E2F		MVI	A, 02FH	D ϕ H
1763	32003B		STA	Y3800	D ϕ $\rightarrow$ 3000
1766	41		MOV	B, C	BC = ϕ
1767	C5		PUSH	B	
1768	C30007		JMP	X0700	SAFE OUT CONTINUE RET
176B	7A17		DW	177AH	
176D	8117		DW	1781H	
176F	7317		DW	1737H	
1771	7317		DW	1737H	
1773	014000		LXI	B, 00040H	
1776	210002		LXI	H, 00200H	
1779	C9		RET		
177A	CD8717		CALL	A1787	
177D	EB		XCHG		
177E	EDB0		LDIR		
1780	C9		RET		
1781	CD8717		CALL	A1787	
1784	EDB0		LDIR		
1786	C9		RET		

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1787 D5      A1787:  PUSH      D
1788 114000   LXI        D,00040H
1789 42       MOV        B,D
178C 48       MOV        C,E
178D D7       RST        Z
178E A9       XRA        C
178F 3011     JRNC       A17A2
1791 00       NOP
1792 80       ADD        B
1793 19       DAD        D
1794 D1       POP        D
1795 C9       RET

;
1796 B817     DW         178BH
1798 AB17     DW         17ABH
179A A017     DW         17A0H
179C 2507     DW         0725H
179E DD06     DW         06DDH
17A0 0109     DW         0901H

;
17A2 00      A17A2:  NOP
17A3 CD2F08   CALL     X062F
17A6 EDA0     LDI
17A8 EDA0     LDI
17AA C9       RET

;
17AB DD5808   MOV        D,008H(X)
17AE 7A       MOV        A,D
17AF DD5E07   MOV        E,007H(X)
17B2 B3       ORA        E
17B3 2002     JRNZ       A17B7
17B5 3C       INR        A
17B6 C9       RET

;
17B7 1A      A17B7:  LDAX    D
17B8 37       STC
17B9 1807     JMPR      A17C2

;
17BB DD5808   MOV        D,008H(X)
17BE DD5E07   MOV        E,007H(X)
17C1 12       STAX      D
17C2 13      A17C2:  INX        D
17C3 DD7208   MOV        008H(X),D
17C6 DD7307   MOV        007H(X),E
17C8 C9       RET

;
17CA 1D      T17CA:  DCR        E
17CB 2001     JRNZ       A17CE
17CD 08       DCX        B
17CE 2002     JRNZ       A17D2
17D0 14       INR        D
17D1 2000     JRNZ       A17D3
17D3 00      A17D3:  NOP
17D4 00       NOP
17D5 2812     T17D5:  JRZ        A17E8
17D7 41       MOV        B,C
17D8 00       NOP
17D9 010005   LXI        B,00500H
17DC 0C       INR        C
17DD FF       RST        7

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17DE	2812		JRZ	A17F2
17E0	42		MOV	B,D
17E1	00		NOP	
17E2	010005		LXI	B,00500H
17E5	0C		INR	C
17E6	FF		RST	7
17E7	F717		DW	17F7H
17E9	15	A17E9:	DW	1815H
17EB	3818		DW	1839H
17ED	4819		DW	1849H
17EF	5019		DW	1850H
17F1	71		DB	71H
17F2	19	A17F2:	DB	19H
17F3	8A19		DW	18BAH
17F5	8919		DW	1899H
17F7	E1		POP	H
17FB	75		MOV	M,L
17F9	00		NOP	
17FA	0B		DCX	B
17FB	F0		RP	
17FC	00		NOP	
17FD	0EF0		MVI	C,0F0H
17FF	00		NOP	
1800	17		RAL	
1801	F0		RP	
1802	00		NOP	
1803	47		MOV	B,A
1804	BD		CMP	L
1805	00		NOP	
1806	FF		RST	7
1807	CB		RZ	
1808	00		NOP	
1809	FD		DB	0FDH
180A	B2		ORA	D
180B	00		NOP	
180C	E3		XTHL	
180D	00		NOP	
180E	00		NOP	
180F	2D		DCR	L
1810	1D		DCR	E
1811	00		NOP	
1812	00		NOP	
1813	E7		RST	4
1814	00		NOP	
1815	FB		RM	
1816	4D		MOV	C,L
1817	01EF4D		LXI	B,04DEFH
181A	01D84D		LXI	B,04DD6H
181D	01D54D		LXI	B,04DD5H
1820	01D1E2		LXI	B,0E2D1H
1823	02		STAX	B
1824	D348		OUT	046H
1826	03		INX	B
1827	FD		DB	0FDH
1828	BD		CMP	L
1829	03		INX	B
182A	CF		RST	1
182B	EB		XCHG	

182C	03		INX	B
182D	D0		RNC	
182E	03		INX	B
182F	04		INR	B
1830	D2FF03		JNC	X03FF
1833	FB		EI	
1834	1D		DCR	E
1835	04		INR	B
1836	00		NOP	
1837	FF	A1837:	RST	7
1838	00		NOP	
1839	29		DAD	H
183A	66		MOV	H,M
183B	182A		JMPR	A1867
183D	79		MOV	A,C
183E	182B		JMPR	A186B
1840	8C		ADC	H
1841	182D		JMPR	A1870
1843	A0		ANA	B
1844	182E		JMPR	A1874
1846	AF		XRA	A
1847	182F		JMPR	A1878
1849	88		CMP	B
184A	1830		JMPR	A187C
184C	CB18		ADI	018H
184E	31D418		LXI	SP,T18D4
1851	32E318		STA	D18E3
1854	34		INR	M
1855	F21835		JP	X3518
1858	05		DCR	B
1859	19		DAD	D
185A	47		MOV	B,A
185B	14		INR	D
185C	19		DAD	D
185D	48		MOV	C,B
185E	24		INR	H
185F	19		DAD	D
1860	57		MOV	D,A
1861	34		INR	M
1862	19		DAD	D
1863	00		NOP	
1864	3F		CMC	
1865	19		DAD	D
1866	49		DB	'I'
1867	6E	A1867:	DB	'invalid device nam', 'a'+80H
1868	69	A1868:	DB	069H
1870	76	A1870:	DB	076H
1874	20	A1874:	DB	020H
1878	E5	A1878:	DB	0E5H
1879	53		DB	'Stream already ope', 'n'+80H
187C	65	A187C:	DB	065H
188C	49		DB	'Invalid drive numbe', 'r'+80H
18A0	57		DB	'Write protecte', 'd'+80H

18AF	44		DB	'Disk full', 'l'+BOH
1888	44		DB	'Disk I/O error', 'r'+BOH
18C8	48		DB	'File not found', 'd'+BOH
18D4	48	T18D4:	DB	'Hook code error', 'r'+BOH
18E3	48	D18E3:	DB	'File size error', 'r'+BOH
18F2	58		DB	'Verification failed', 'd'+BOH
1905	57		DB	'Wrong file type', 'e'+BOH
1914	31		DB	'1984 Dave Corne', 'y'+BOH
191B	76	A191B:	DB	076H
1924	44		DB	'Don't be a wall', 'y'+BOH
1934	52		DB	'Ram corrupt', 't'+BOH
193F	4E		DB	'No message', 'e'+BOH
1949	00		DB	0

194A	4C		MOV	C,H
194B	19		DAD	D
194C	00		NOP	
194D	07		RLC	
194E	A6		ANA	M
194F	04		INR	B
1950	20C9		JRNZ	A191B
1952	07		RLC	
1953	8D		MOV	L,L
1954	C9		RET	

/ >> NO EXECUTION PATH TO HERE <<

1955	07		RLC	
1956	23		INX	H
1957	79		MOV	A,C
1958	07		RLC	
1959	82		MOV	H,D
195A	33		INX	SP
195B	07		RLC	
195C	74		MOV	M,H
195D	28		DAD	H
195E	07		RLC	
195F	88		MOV	L,E
1960	010773		LXI	B,07307H
1963	010770		LXI	B,07007H
1966	0107EF		LXI	B,0EF07H
1969	1F		RAR	
196A	0A		LDAX	B
196B	AF		XRA	A
196C	98		SUB	M
196D	17		RAL	
196E	00		NOP	
196F	7A		MOV	A,D
1970	19		DAD	D
1971	204A		JRNZ	X198D
1973	09		DAD	B
1974	8D		MOV	L,L
1975	4A		MOV	C,D
1976	09		DAD	B
1977	00		NOP	
1978	84		ADD	H
1979	19		DAD	D
197A	85		ADD	L
197B	0C		INR	C
197C	85		ADD	L
197D	0C		INR	C

187E	CO	RNZ	
187F	04	INR	B
1880	85	ADD	L
1881	0C	INR	C
1882	85	ADD	L
1883	0C	INR	C
1884	CO	RNZ	
1885	04	INR	B
1886	CO	RNZ	
1887	04	INR	B
1888	CO	RNZ	
1889	04	INR	B
188A	01790C	LXI	B,00C79H
188D	02	STAX	B
188E	78	MOV	A,C
188F	0C	INR	C
1890	FF	RST	7
1891	FD	DB	0FDH
1892	0D	DCR	C
1893	08	DCX	B
1894	88	MOV	L,E
1895	17	RAL	
1896	00	NOP	
1897	A2	ANA	D
1898	19	DAD	D
1899	01D517	LXI	B,T17D5
189C	02	STAX	B
189D	DE17	SBI	017H
189F	00	NOP	
18A0	00	NOP	
18A1	00	NOP	
18A2	85	ADD	L
18A3	0C	INR	C
18A4	85	ADD	L
18A5	0C	INR	C
18A6	39	DAD	SP
18A7	0A	LDAX	B
18A8	39	DAD	SP
18A9	0A	LDAX	B
		END	

```

;
; UNRESOLVED LABELS
; A17D2   A1825

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