

hL = OPCODE, hL = REGL

hL = PAGE, hL = PC

hL = ADDMSG, Call 326 001 wrt-Lines

Call 045 003, INP-APR

a=h, ()=a PAGE

Jmp NXTI2

ADDMSG " TRACE\_ADDR?

203

ENTRY Call SAVREG

NEXTINS hL=() PC

NXTI2 ()=hL PC, ()=hL PCS

axora, ()=a CALLF

a=m, ()=a OPCODE, b=a

d=000

i-a 303

JZ JUMP

i-a 315

JZ CALL

. a8 307

i-a 302

JZ JUMP

i-a 304

Call NOXFR

Jmp CALL

Jump d+1

CALL d+1, hL = CALLF, m=d

c=003

Call SETCODES

Call DISPLAY

hL = OPC1, call OPJMP, JZ JC0

Call FLAGS

OPC1 Jmp NEXTINS

page 2

JC $\emptyset$  hL=() OPRND, C=000  
a=() PAGE, h-a, JZ JC1  
C+1

JC1 a=() CALLF, a-1, JNZ JC3  
hL=() PC, psh HL  
C-1 JNZ JC2  
hL=ENTRY, ehl(sp), ()=hL PC

JC2 C+1

JC3 hL=() OPRND  
C-1, JNZ NXTI2  
C=hL JA, Call RESREG  
303  
JA 000 000

FLAGS hL=() REGA, c=h, d=L  
pop hL, psh de, pop af, pc=hL

OPJMP a=() OPCODE, i-a 303  
r2, i-a 311  
r2, i-a 315  
r2, ab 070  
aor 302  
axor 010  
m=a, ret

NOXFR a=b, C=007  
hL= DICTI, C.11 FINDBYT  
JNZ IMMINS  
i-a 061  
JZ ERR  
C= 003

J2 RET

i-a 300

J2 ERR

i-a 307

ONEBYT C=001

J2 XE00P

a=b , f-a 343

J2Z ONEBYT

i-a 303

J2 XE00P

i-a 306

J2C ONEBYT

i-a 302

J2 XE00P

i-a 006

a8 307

IMMINS C=00A

C+1, RET . Z=0

HL+1, C-1, J2 F1N0BYT

F1N0BYT M-a, R2 . Z=1

DICTI 001021041042052062072

DMP NEXTIUS

CALL SAUREG

OPRND1 000

OPRND0 000

OPCODE 000

CALL RESREG

CALL DISPLAY

XE00P CALL SETCODES

page 3

$$\alpha = b, 1 - \alpha = 371$$

1- $\alpha$  351

122 3

116 20-1

200

100% X MP

SEABEES 11°C

Call FLAGS

QPC2 Tmp NEXT TNS

RETI2 pophl, jmp NXTI2

SETCODES hl=OPCODE , m=b

$$C = 74 \quad \text{OPRUD} \quad 74 = C$$

E28 ZF 1-2

275 1-0

471, am, ( ) = a OPENDI

SC II  $c+1$ ,  $a=c$ ,  $(c)=a$  NMBS

$$PC \quad 74 = ( ) \quad 1+74$$

РЕТ

SC2 C1 ZE SCS t1 + 14 = 0, a = 0, w = 0, (14 = 0)

NXTSAV  $a=m$ ,  $(de)=a$ ,  $sp+1$ ,  $hL+1$   
 $de-1$   $c-1$  JNZ NXTSAV

page 4

ret

RESREG  $hL=000\ 000$

$hL+sp$ ,  $de=REGL$ ,  $c=010$

NXTRES  $sp-1$ ,  $hL-1$ ,  $a=(de)$ ,  $m=a$   
 $de+1$ ,  $c-1$ , JNZ NXTRES

pop af, pop bc, pop de, pop hl

ret

REGL  $000\ 000$

$000\ 000$

$000\ 000$

REGA  $000$

REGH  $000$

DISPLAY  $a=377$

Call 372 000 \*char-To-TU

$a=()$  CALLF, aora JZ PISPØ

$hL=JCMMSG$

Jmp DISP1

PISPØ  $hL=INSMSG$

DISP1 Call 326 001

$a=()$  NMBYTS,  $c=a$

$hL=137\ 004$

$de=OPCODE$

NXTBYT  $a=(de)$  Call 225 001

$hL+1$ ,  $hL+1$ ,  $hL+1$

$c-1$ , JZ Disp2

$m=240$

$hL+1$ ,  $de+1$  Jmp NXTBYT

DISP2 m=214

page 5

m+1

hL = 137 004 , WRT BUFF

Call 326 001 WRT Lines

hL = () PCS Call 130 003

Call RESREG () = hL HL

hL = DSRET psh hl

hL = () HL, psh hl, psh de

psh hc psh af, Jmp 307 003

DSRET Call SAUREG, RET

INSMSG " NXT-INS; PC

203

JCMMSG " JUMP/CALL

203

ERR hL = ERRMSG, Call 326 001 WRT-Lines

Jmp 000 006

ERRMSG " SP/PC/RST-INS

203

HL = 000 000

PAGE 000

PC 000 000

PCS 000 000

CALLF 000

NMBYTS 000

"

TRACER

Print

000 025

041

343

025

041

HL = OP CODE

HL = REG L

253

026

041

HL = PAGE

074

010

027

041

HL = PC

025

027

041

HL = ADD MSG

034

025

315

Call 326 001 wrT-Lines

020

326 -

001 - change

315

Call 045 003 inp-Addr

045

change

003

174

a:h

062

()=a PAGE

074

- 030

027

303

Imp NXTI2

056

025

4

324 T \* ADD MSG

322 R

301 A

303 C

040

305 E

337 -

301 A

304 A

304 D

322 R

277

203

050 025 315 \*Entry CAll SAVREG

125

026

052 \*NextIns hl=() PC

075

027

042 \*NEXTI2 ()=hl PC

075

060

027

092

()=hl PCS

077

027

257

axora

062

()=a CallF

101

027

070

176

a=m

062

()=a Opcode

342

025

107

b=a

026

d=000

000

376

i-a 303

(c)

100 025

303

312

JZ Jump

130

025

376

i-a 315

(m)

315

312

JZ Call

131

110

025

346

a>307

307

376

i-a 302

(b)

302

312

JZ- Jump

130

025



212 212 Max

PC = C = 74

C+1

PC = C = 74  
CSP (74)

ENTRY = 74

212 212  
C-1

74 ysd

PC = C = 74

A-1

C=11E C=11F  
C+1

212 212  
H-a

PC = C = 000

C=000

580  
056  
302  
510  
025  
343

052

619

120

520

042

343

025

050

140

125

230

302

510

548

120

570

052

520

130

202

302

520

120

202

302

520

120

202

302

520

120

202

302

520

000

016

580

000

230

220

010

580 000

170 011

240 025 042 ()=hl JA

247

025

315

Call ResReg

224

026

303

303 000 000

000 \*JA

250

000

361 \*Flags

' pop psw

2

351

pc=hl

072

hl=( ) Rega

342

025

376

i-a 303

303

260

310

r2

361

pop psw

351

pc hl

072 \*OpJmp

a=( ) opcode

342

025

376

i-a 303

303

270

310

r2

376

i-a 311

311

310

r2

376

i-a 315

315

310

r2

346

a8 070

300

070

aor 302

025

366

aor 302

302

356

oxor 010

010

167

m=a

311

rc7

170 \*NOXFR

a=b

310

016

c=007





030 026

025

016

001

376

oneByT

c=1

307

312

043

027

040

376

1-a 300

300

312

JZ Ret

070

026

170

A=B  
1-a 371

376

371

050

312

JZ Err

043

027

376

1-a 311

311

312

JZ Ret

070

026

376

1-a 351

351

312

JZ Err

043

027

303

Jmp XEQOp

331

025

070

016

Ret

C=001

001

315

Call SctCodes

123

026

315

Call display

263

026

1 0 0 0 2 6

0 4 1

hl = opc2

1 1 4

0 2 6

3 1 5

Call of jmp

3 6 2

0 2 5

3 1 2

JZ Ret2

1 1 7

1 1 0

0 2 6

3 1 5

Call flags

2 5 1

0 2 5

3 0 3

opc2

Jmp Nextins

0 5 3

0 2 5

3 4 1

Ret2

pop hl

1 2 0

3 0 3

Jmp NXTF2

0 5 6

0 2 5

0 4 1

SetCodes

hl = opcode

3 4 2

0 2 5

1 6 0

mzb

0 4 1

hl = 000 000

1 3 0

0 0 0

0 0 0

0 4 2

() = hl oprnd

3 4 3

0 2 5

0 5 2

hl = () pc

0 7 5

0 2 7

1 4 0

0 1 5

C-1

3 1 2

JZ SC2

1 6 3

0 2 6

0 4 3

hl + 1

1 7 6

a = m

0 6 2

() = a oprnd

3 4 3

150 086

025

015

312

162

026

043

176

062

160

349

025

014

SC2

C+1

JZ SC1

h1+l

a=m

()=h1 opernd1

170

043

042

025

027

311

345

Sav Reg

325

305

200

365

041

000

000

071

021

262

026

210

016

010

176

NXT Sav

622

063

043

033

015

	0 0 0	
	2 7 2	
	5 1 8	
	7 7 3	
display	9 7 6	
key b	0 0 0	
key A	0 0 0	
	0 0 0	2 6 0
	0 0 0	
	0 0 0	
	0 0 0	
	0 0 0	
	0 0 0	
	0 0 0	
key L	0 0 0	
	1 1 8	
	1 4 1	
	3 2 1	2 5 0
	1 0 8	
	1 9 8	
	9 0 0	
	5 3 5	
	3 0 2	
	5 1 0	
	8 2 0	
	7 9 1	0 4 0
	8 3 0	
	8 5 0	
key N	0 7 3	
	0 1 0	
	9 1 0	
	0 8 0	
	8 5 0	
	1 0 0	2 3 0
	1 2 0	
	0 0 0	
	0 0 0	
key S	1 4 0	
	1 1 8	
	9 2 0	
	2 1 2	
	3 0 2	2 2 0 0 2 6

WRT-lines

Disp I

315

310

Disp Ø

041

026

013

303

270

130

140

929

503

212

260

260

101

220

920

060

MAXI b7T

026

743

218

510

243

043

340

100

330

522

315

032

520

242

121

400

731

320

140

211

220

101

072

100

926

326

510

220

041

026

013

303

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503

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Disp

303

365

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072

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012

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629

072

042

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070

224

515

203

130

315

027

620

058

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001

326

315

064

131

140

460

214

050

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026

325

303

023

343

240

066

340 020 060

Disp2

073  
LST  
320  
EWSMS  
323  
606  
000  
303  
100  
326  
518  
027  
054  
041 EWS  
203  
418  
314  
108  
303  
257  
320  
518  
528  
1218  
203  
303  
020  
323  
613  
111  
318  
137  
432  
030  
EWSMS  
316  
113  
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315  
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307  
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