EFEX Command Explanations.

Prompt is

C:\>

Type one character for following commands:

S - Save
L - Load
A - Assembler
G - Goto
E - Edit
M - Move
H - Help
W - Warm
U - Useful Routines
D - Disassembler
F - Fill
X - heXdump

If not one of these keys, print prompt and retry.

Each command usually prints what kind of input it expects. No need to hit ENTER after entering these.

If **$** -> 2 bytes such as $1234
If **#** -> 1 byte such as #41

For example Fill Command (F):

Start adr. :$**0000** Lenght $**1000** Fill with #**FF**
Fill Complete !

If you want to stop/cancel a command, hit **ESCAPE**.
If a command pauses, **ENTER**/**SPACE** to continue.

ASSEMBLE

```
A
A-$?XXXX                        Enter starting address
Assembler:
XXXX  YYY  ENTER
XXXX  ESCAPE                    cancel
XXXX  YYY   #BB                 # expects 1 byte
XXXX  YYY   $HHLL               $ expects 2 bytes


.byte "_JP $",1,$C3,$FF         $ expects 2 bytes
.byte "_JR #",1,$18,$FF         # expects 1 byte


E800  LD A,#37          :3E 37
E802  LD A,#32          :3E 32
E804  JP $0000          :C3 00 00
E807  NOP               :00
E808
```

USEFUL Subroutines in ROM

```
U

Prints useful ROM subroutines.
TXD    (S):  $003C                  transmit byte in A
RXD    (S):  $0048                  receive byte into A
BYTEIN2(S):  $07E8 -> FF43-FF44     get 2 bytes, saved in $FF43/FF44
BYTEIN1(S):  $0811 -> FF42          get 1 byte, saved in $FF42
HEXOUT (S):  $0A3A A -> UART        print A in hex
PROMPT (R):  $0072                  print prompt C:>
DELAY  (S):  $01AF                  fixed delay
```

Z80 Instruction Format for Assembler:

- ***Skip underscore at the beginning.***
  It is used strictly by the ROM code during search for instructions.
- ***$2C between commands indicates comma.***

.byte "_**ADC A",$2C,"(HL)"**,1,$8E,$FF

Enter this as ADC A,(HL)

- ***# means, you need to enter # and 1 byte. I.e. #45***

.byte "_RES #",$2C,"(HL)",2,$CB,$86

Enter this as RES #36,(HL)

- ***$ means you need to enter $ and an address. I.e. $1234***

.byte "_JP $",1,$C3,$FF

Enter this as JP $1234

- *Hit Enter at the end of line for it to be assembled.*
- *You can use Backspace to correct but once you hit $ or # it stays in number entry mode and you can not fix the instruction anymore.*
- *Hit Escape to cancel current line.*

```
TABLECOD:

          .byte "_ADC A",$2C,"(HL)",1,$8E,$FF

          .byte "_ADC A",$2C,'A',1,$8F,$FF
          .byte "_ADC A",$2C,'B',1,$88,$FF
          .byte "_ADC A",$2C,'C',1,$89,$FF
          .byte "_ADC A",$2C,'D',1,$8A,$FF
          .byte "_ADC A",$2C,'E',1,$8B,$FF
          .byte "_ADC A",$2C,'H',1,$8C,$FF
          .byte "_ADC A",$2C,'L',1,$8D,$FF
          .byte "_ADC A",$2C,'#',1,$CE,$FF


          .byte "_ADD A",$2C,"(HL)",1,$86,$FF

          .byte "_ADD A",$2C,'A',1,$87,$FF
          .byte "_ADD A",$2C,'B',1,$80,$FF
          .byte "_ADD A",$2C,'C',1,$81,$FF
```

```
.byte "_ADD A",$2C,'D',1,$82,$FF
.byte "_ADD A",$2C,'E',1,$83,$FF
.byte "_ADD A",$2C,'H',1,$84,$FF
.byte "_ADD A",$2C,'L',1,$85,$FF
.byte "_ADD A",$2C,'#',1,$C6,$FF
.byte "_ADD HL",$2C,"BC",1,$09,$FF
.byte "_ADD HL",$2C,"DE",1,$19,$FF
.byte "_ADD HL",$2C,"HL",1,$29,$FF
.byte "_ADD HL",$2C,"SP",1,$39,$FF


.byte "_AND (HL)",1,$A6,$FF

.byte "_AND A",1,$A7,$FF
.byte "_AND B",1,$A0,$FF
.byte "_AND C",1,$A1,$FF
.byte "_AND D",1,$A2,$FF
.byte "_AND E",1,$A3,$FF
.byte "_AND H",1,$A4,$FF
.byte "_AND L",1,$A5,$FF
.byte "_AND #",1,$E6,$FF



.byte "_CALL C",$2C,'$',1,$DC,$FF
.byte "_CALL M",$2C,'$',1,$FC,$FF
.byte "_CALL NC",$2C,'$',1,$D4,$FF
.byte "_CALL NZ",$2C,'$',1,$C4,$FF
.byte "_CALL P",$2C,'$',1,$F4,$FF
.byte "_CALL PE",$2C,'$',1,$EC,$FF
.byte "_CALL PO",$2C,'$',1,$E4,$FF
.byte "_CALL Z",$2C,'$',1,$CC,$FF
.byte "_CALL $",1,$CD,$FF

.byte "_CCF",1,$3F,$FF

.byte "_CP (HL)",1,$BE,$FF

.byte "_CP A",1,$BF,$FF
.byte "_CP B",1,$B8,$FF
.byte "_CP C",1,$B9,$FF
.byte "_CP D",1,$BA,$FF
.byte "_CP E",1,$BB,$FF
.byte "_CP H",1,$BC,$FF
.byte "_CP L",1,$BD,$FF
.byte "_CP #",1,$FE,$FF



.byte "_CPL",1,$2F,$FF

.byte "_DAA",1,$27,$FF
```

```
.byte "_DEC (HL)",1,$35,$FF

.byte "_DEC A",1,$3D,$FF
.byte "_DEC B",1,$05,$FF
.byte "_DEC BC",1,$0B,$FF
.byte "_DEC C",1,$0D,$FF
.byte "_DEC D",1,$15,$FF
.byte "_DEC DE",1,$1B,$FF
.byte "_DEC E",1,$1D,$FF
.byte "_DEC H",1,$25,$FF
.byte "_DEC HL",1,$2B,$FF

.byte "_DEC L",1,$2D,$FF
.byte "_DEC SP",1,$3B,$FF
.byte "_DI",1,$F3,$FF
.byte "_DJNZ #",1,$10,$FF

.byte "_EI",1,$FB,$FF
.byte "_EX (SP)",$2C,"HL",1,$E3,$FF
.byte "_EX AF",$2C,"AF",1,$08,$FF
.byte "_EX DE",$2C,"HL",1,$EB,$FF
.byte "_EXX",1,$D9,$FF

.byte "_HALT",1,$76,$FF




.byte "_IN A",$2C,"(#)",1,$DB,$FF


.byte "_INC (HL)",1,$34,$FF

.byte "_INC A",1,$3C,$FF
.byte "_INC B",1,$04,$FF
.byte "_INC BC",1,$03,$FF
.byte "_INC C",1,$0C,$FF
.byte "_INC D",1,$14,$FF
.byte "_INC DE",1,$13,$FF
.byte "_INC E",1,$1C,$FF
.byte "_INC H",1,$24,$FF
.byte "_INC HL",1,$23,$FF

.byte "_INC L",1,$2C,$FF
.byte "_INC SP",1,$33,$FF

.byte "_JR C",$2C,'#',1,$38,$FF
.byte "_JR NC",$2C,'#',1,$30,$FF
.byte "_JR NZ",$2C,'#',1,$20,$FF
.byte "_JR Z",$2C,'#',1,$28,$FF
```

```
.byte "_JR #",1,$18,$FF



.byte "_JP (HL)",1,$E9,$FF

.byte "_JP C",$2C,'$',1,$DA,$FF
.byte "_JP M",$2C,'$',1,$FA,$FF
.byte "_JP NC",$2C,'$',1,$D2,$FF
.byte "_JP NZ",$2C,'$',1,$C2,$FF
.byte "_JP P",$2C,'$',1,$F2,$FF
.byte "_JP PE",$2C,'$',1,$EA,$FF
.byte "_JP PO",$2C,'$',1,$E2,$FF
.byte "_JP Z",$2C,'$',1,$CA,$FF
.byte "_JP $",1,$C3,$FF



.byte "_LD (BC)",$2C,'A',1,$02,$FF
.byte "_LD (DE)",$2C,'A',1,$12,$FF
.byte "_LD (HL)",$2C,'A',1,$77,$FF
.byte "_LD (HL)",$2C,'B',1,$70,$FF
.byte "_LD (HL)",$2C,'C',1,$71,$FF
.byte "_LD (HL)",$2C,'D',1,$72,$FF
.byte "_LD (HL)",$2C,'E',1,$73,$FF
.byte "_LD (HL)",$2C,'H',1,$74,$FF
.byte "_LD (HL)",$2C,'L',1,$75,$FF
.byte "_LD (HL)",$2C,'#',1,$36,$FF

.byte "_LD ($)",$2C,'A',1,$32,$FF
.byte "_LD ($)",$2C,"HL",1,$22,$FF


.byte "_LD A",$2C,"(BC)",1,$0A,$FF
.byte "_LD A",$2C,"(DE)",1,$1A,$FF
.byte "_LD A",$2C,"(HL)",1,$7E,$FF

.byte "_LD A",$2C,'A',1,$7F,$FF
.byte "_LD A",$2C,'B',1,$78,$FF
.byte "_LD A",$2C,'C',1,$79,$FF
.byte "_LD A",$2C,'D',1,$7A,$FF
.byte "_LD A",$2C,'E',1,$7B,$FF
.byte "_LD A",$2C,'H',1,$7C,$FF
.byte "_LD A",$2C,'L',1,$7D,$FF
.byte "_LD A",$2C,"($)",1,$3A,$FF
.byte "_LD A",$2C,'#',1,$3E,$FF
.byte "_LD B",$2C,"(HL)",1,$46,$FF
.byte "_LD B",$2C,'A',1,$47,$FF
.byte "_LD B",$2C,'B',1,$40,$FF
.byte "_LD B",$2C,'C',1,$41,$FF
.byte "_LD B",$2C,'D',1,$42,$FF
.byte "_LD B",$2C,'E',1,$43,$FF
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.byte "_LD B",$2C,'H',1,$44,$FF
.byte "_LD B",$2C,'L',1,$45,$FF
.byte "_LD B",$2C,'#',1,$06,$FF
.byte "_LD BC",$2C,'$',1,$01,$FF
.byte "_LD C",$2C,"(HL)",1,$4E,$FF
.byte "_LD C",$2C,'A',1,$4F,$FF
.byte "_LD C",$2C,'B',1,$48,$FF
.byte "_LD C",$2C,'C',1,$49,$FF
.byte "_LD C",$2C,'D',1,$4A,$FF
.byte "_LD C",$2C,'E',1,$4B,$FF
.byte "_LD C",$2C,'H',1,$4C,$FF
.byte "_LD C",$2C,'L',1,$4D,$FF
.byte "_LD C",$2C,'#',1,$0E,$FF
.byte "_LD D",$2C,"(HL)",1,$56,$FF
.byte "_LD D",$2C,'A',1,$57,$FF
.byte "_LD D",$2C,'B',1,$50,$FF
.byte "_LD D",$2C,'C',1,$51,$FF
.byte "_LD D",$2C,'D',1,$52,$FF
.byte "_LD D",$2C,'E',1,$53,$FF
.byte "_LD D",$2C,'H',1,$54,$FF
.byte "_LD D",$2C,'L',1,$55,$FF
.byte "_LD D",$2C,'#',1,$16,$FF
.byte "_LD DE",$2C,'$',1,$11,$FF
.byte "_LD E",$2C,"(HL)",1,$5E,$FF
.byte "_LD E",$2C,'A',1,$5F,$FF
.byte "_LD E",$2C,'B',1,$58,$FF
.byte "_LD E",$2C,'C',1,$59,$FF
.byte "_LD E",$2C,'D',1,$5A,$FF
.byte "_LD E",$2C,'E',1,$5B,$FF
.byte "_LD E",$2C,'H',1,$5C,$FF
.byte "_LD E",$2C,'L',1,$5D,$FF
.byte "_LD E",$2C,'#',1,$1E,$FF
.byte "_LD H",$2C,"(HL)",1,$66,$FF
.byte "_LD H",$2C,'A',1,$67,$FF
.byte "_LD H",$2C,'B',1,$60,$FF
.byte "_LD H",$2C,'C',1,$61,$FF
.byte "_LD H",$2C,'D',1,$62,$FF
.byte "_LD H",$2C,'E',1,$63,$FF
.byte "_LD H",$2C,'H',1,$64,$FF
.byte "_LD H",$2C,'L',1,$65,$FF
.byte "_LD H",$2C,'#',1,$26,$FF
.byte "_LD HL",$2C,"($)",1,$2A,$FF
.byte "_LD HL",$2C,'$',1,$21,$FF
.byte "_LD L",$2C,"(HL)",1,$6E,$FF
.byte "_LD L",$2C,'A',1,$6F,$FF
.byte "_LD L",$2C,'B',1,$68,$FF
.byte "_LD L",$2C,'C',1,$69,$FF
.byte "_LD L",$2C,'D',1,$6A,$FF
.byte "_LD L",$2C,'E',1,$6B,$FF
.byte "_LD L",$2C,'H',1,$6C,$FF
.byte "_LD L",$2C,'L',1,$6D,$FF
.byte "_LD L",$2C,'#',1,$2E,$FF
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```
.byte "_LD SP",$2C,'$',1,$31,$FF
.byte "_LD SP",$2C,"HL",1,$F9,$FF




.byte "_NOP",1,$00,$FF

.byte "_OR (HL)",1,$B6,$FF

.byte "_OR A",1,$B7,$FF
.byte "_OR B",1,$B0,$FF
.byte "_OR C",1,$B1,$FF
.byte "_OR D",1,$B2,$FF
.byte "_OR E",1,$B3,$FF
.byte "_OR H",1,$B4,$FF
.byte "_OR L",1,$B5,$FF
.byte "_OR #",1,$F6,$FF


.byte "_OUT (#)",$2C,'A',1,$D3,$FF



.byte "_POP AF",1,$F1,$FF
.byte "_POP BC",1,$C1,$FF
.byte "_POP DE",1,$D1,$FF
.byte "_POP HL",1,$E1,$FF


.byte "_PUSH AF",1,$F5,$FF
.byte "_PUSH BC",1,$C5,$FF
.byte "_PUSH DE",1,$D5,$FF
.byte "_PUSH HL",1,$E5,$FF


.byte "_RET",1,$C9,$FF
.byte "_RET C",1,$D8,$FF
.byte "_RET M",1,$F8,$FF
.byte "_RET NC",1,$D0,$FF
.byte "_RET NZ",1,$C0,$FF
.byte "_RET P",1,$F0,$FF
.byte "_RET PE",1,$E8,$FF
.byte "_RET PO",1,$E0,$FF
.byte "_RET Z",1,$C8,$FF

.byte "_RLA",1,$17,$FF
```

```
.byte "_RLCA",1,$07,$FF
.byte "_RRA",1,$1F,$FF

.byte "_RRCA",1,$0F,$FF


.byte "_RST 00",1,$C7,$FF
.byte "_RST 08",1,$CF,$FF
.byte "_RST 10",1,$D7,$FF
.byte "_RST 18",1,$DF,$FF
.byte "_RST 20",1,$E7,$FF
.byte "_RST 28",1,$EF,$FF
.byte "_RST 30",1,$F7,$FF
.byte "_RST 38",1,$FF,$FF

.byte "_SBC A",$2C,"(HL)",1,$9E,$FF

.byte "_SBC A",$2C,'A',1,$9F,$FF
.byte "_SBC A",$2C,'B',1,$98,$FF
.byte "_SBC A",$2C,'C',1,$99,$FF
.byte "_SBC A",$2C,'D',1,$9A,$FF
.byte "_SBC A",$2C,'E',1,$9B,$FF
.byte "_SBC A",$2C,'H',1,$9C,$FF
.byte "_SBC A",$2C,'L',1,$9D,$FF

.byte "_SBC A",$2C,'#',1,$DE,$FF

.byte "_SCF",1,$37,$FF




.byte "_SUB (HL)",1,$96,$FF

.byte "_SUB A",1,$97,$FF
.byte "_SUB B",1,$90,$FF
.byte "_SUB C",1,$91,$FF
.byte "_SUB D",1,$92,$FF
.byte "_SUB E",1,$93,$FF
.byte "_SUB H",1,$94,$FF
.byte "_SUB L",1,$95,$FF
.byte "_SUB #",1,$D6,$FF


.byte "_XOR (HL)",1,$AE,$FF

.byte "_XOR A",1,$AF,$FF
```

```
            .byte "_XOR B",1,$A8,$FF
            .byte "_XOR C",1,$A9,$FF
            .byte "_XOR D",1,$AA,$FF
            .byte "_XOR E",1,$AB,$FF
            .byte "_XOR H",1,$AC,$FF
            .byte "_XOR L",1,$AD,$FF
            .byte "_XOR #",1,$EE,$FF

AFTERCOD:
            .byte "_ADC A",$2C,"(IX+#)",2,$DD,$8E
            .byte "_ADC A",$2C,"(IY+#)",2,$FD,$8E
            .byte "_ADC HL",$2C,"BC",2,$ED,$4A
            .byte "_ADC HL",$2C,"DE",2,$ED,$5A
            .byte "_ADC HL",$2C,"HL",2,$ED,$6A
            .byte "_ADC HL",$2C,"SP",2,$ED,$7A
            .byte "_ADD A",$2C,"(IX+#)",2,$DD,$86
            .byte "_ADD A",$2C,"(IY+#)",2,$FD,$86
            .byte "_ADD IX",$2C,"BC",2,$DD,$09
            .byte "_ADD IX",$2C,"DE",2,$DD,$19
            .byte "_ADD IX",$2C,"IX",2,$DD,$29
            .byte "_ADD IX",$2C,"SP",2,$DD,$39
            .byte "_ADD IY",$2C,"BC",2,$FD,$09
            .byte "_ADD IY",$2C,"DE",2,$FD,$19
            .byte "_ADD IY",$2C,"IY",2,$FD,$29
            .byte "_ADD IY",$2C,"SP",2,$FD,$39
            .byte "_AND (IX+#)",2,$DD,$A6
            .byte "_AND (IY+#)",2,$FD,$A6
            .byte "_BIT #",$2C,"(HL)",2,$CB,$46
            .byte "_BIT #",$2C,'A',2,$CB,$47
            .byte "_BIT #",$2C,'B',2,$CB,$40
            .byte "_BIT #",$2C,'C',2,$CB,$41
            .byte "_BIT #",$2C,'D',2,$CB,$42
            .byte "_BIT #",$2C,'E',2,$CB,$43
            .byte "_BIT #",$2C,'H',2,$CB,$44
            .byte "_BIT #",$2C,'L',2,$CB,$45
            .byte "_CP (IX+#)",2,$DD,$BE
            .byte "_CP (IY+#)",2,$FD,$BE
            .byte "_CPD",2,$ED,$A9     ;BASLANGICI BENZER KOMUTLARDA
TABLODA ONCE KISA OLAN OLMALI
            .byte "_CPDR",2,$ED,$B9
            .byte "_CPI",2,$ED,$A1
            .byte "_CPIR",2,$ED,$B1
            .byte "_DEC (IX+#)",2,$DD,$35
            .byte "_DEC (IY+#)",2,$FD,$35
            .byte "_DEC IX",2,$DD,$2B
            .byte "_DEC IY",2,$FD,$2B

            .byte "_EX (SP)",$2C,"IX",2,$DD,$E3
            .byte "_EX (SP)",$2C,"IY",2,$FD,$E3

            .byte "_IM0",2,$ED,$46
            .byte "_IM1",2,$ED,$56
```

```
.byte "_IM2",2,$ED,$5E
.byte "_IN A",$2C,"(C)",2,$ED,$78
.byte "_IN B",$2C,"(C)",2,$ED,$40
.byte "_IN C",$2C,"(C)",2,$ED,$48
.byte "_IN D",$2C,"(C)",2,$ED,$50
.byte "_IN E",$2C,"(C)",2,$ED,$58
.byte "_IN H",$2C,"(C)",2,$ED,$60
.byte "_IN L",$2C,"(C)",2,$ED,$68
.byte "_INC (IX+#)",2,$DD,$34
.byte "_INC (IY+#)",2,$FD,$34
.byte "_IND",2,$ED,$AA
.byte "_INDR",2,$ED,$BA
.byte "_INI",2,$ED,$A2
.byte "_INIR",2,$ED,$B2
.byte "_INC IX",2,$DD,$23
.byte "_INC IY",2,$FD,$23

.byte "_JP (IX+#)",2,$DD,$E9
.byte "_JP (IY+#)",2,$FD,$E9


.byte "_LD (IX+#)",$2C,'A',2,$DD,$77
.byte "_LD (IX+#)",$2C,'B',2,$DD,$70
.byte "_LD (IX+#)",$2C,'C',2,$DD,$71
.byte "_LD (IX+#)",$2C,'D',2,$DD,$72
.byte "_LD (IX+#)",$2C,'E',2,$DD,$73
.byte "_LD (IX+#)",$2C,'H',2,$DD,$74
.byte "_LD (IX+#)",$2C,'L',2,$DD,$75
.byte "_LD (IY+#)",$2C,'A',2,$FD,$77
.byte "_LD (IY+#)",$2C,'B',2,$FD,$70
.byte "_LD (IY+#)",$2C,'C',2,$FD,$71
.byte "_LD (IY+#)",$2C,'D',2,$FD,$72
.byte "_LD (IY+#)",$2C,'E',2,$FD,$73
.byte "_LD (IY+#)",$2C,'H',2,$FD,$74
.byte "_LD (IY+#)",$2C,'L',2,$FD,$75
.byte "_LD ($)",$2C,"BC",2,$ED,$43
.byte "_LD ($)",$2C,"DE",2,$ED,$53
.byte "_LD ($)",$2C,"IX",2,$DD,$22
.byte "_LD ($)",$2C,"IY",2,$FD,$22
.byte "_LD ($)",$2C,"SP",2,$ED,$73
.byte "_LD A",$2C,"(IX+#)",2,$DD,$7E
.byte "_LD A",$2C,"(IY+#)",2,$FD,$7E
.byte "_LD A",$2C,'I',2,$ED,$57
.byte "_LD A",$2C,'R',2,$ED,$5F
.byte "_LD B",$2C,"(IX+#)",2,$DD,$46
.byte "_LD B",$2C,"(IY+#)",2,$FD,$46
.byte "_LD BC",$2C,"($)",2,$ED,$4B
.byte "_LD C",$2C,"(IX+#)",2,$DD,$4E
.byte "_LD C",$2C,"(IY+#)",2,$FD,$4E
.byte "_LD D",$2C,"(IX+#)",2,$DD,$56
.byte "_LD D",$2C,"(IY+#)",2,$FD,$56
.byte "_LD DE",$2C,"($)",2,$ED,$5B
```

```
        .byte "_LD E",$2C,"(IX+#)",2,$DD,$5E
        .byte "_LD E",$2C,"(IY+#)",2,$FD,$5E
        .byte "_LD H",$2C,"(IX+#)",2,$DD,$66
        .byte "_LD H",$2C,"(IY+#)",2,$FD,$66
        .byte "_LD I",$2C,'A',2,$ED,$47
        .byte "_LD IX",$2C,"($)",2,$DD,$2A
        .byte "_LD IX",$2C,'$',2,$DD,$21
        .byte "_LD IY",$2C,"($)",2,$FD,$2A
        .byte "_LD IY",$2C,'$',2,$FD,$21
        .byte "_LD L",$2C,"(IX+#)",2,$DD,$6E
        .byte "_LD L",$2C,"(IY+#)",2,$FD,$6E
        .byte "_LD R",$2C,'A',2,$ED,$4F
        .byte "_LD SP",$2C,"($)",2,$ED,$7B
        .byte "_LD SP",$2C,"IX",2,$DD,$F9
        .byte "_LD SP",$2C,"IY",2,$FD,$F9
        .byte "_LDD",2,$ED,$A8
        .byte "_LDDR",2,$ED,$B8
        .byte "_LDI",2,$ED,$A0
        .byte "_LDIR",2,$ED,$B0
        .byte "_NEG",2,$ED,$44
        .byte "_OR (IX+#)",2,$DD,$B6
        .byte "_OR (IY+#)",2,$FD,$B6
        .byte "_OTDR",2,$ED,$BB
        .byte "_OTIR",2,$ED,$B3

        .byte "_OUT (C)",$2C,'A',2,$ED,$79
        .byte "_OUT (C)",$2C,'B',2,$ED,$41
        .byte "_OUT (C)",$2C,'C',2,$ED,$49
        .byte "_OUT (C)",$2C,'D',2,$ED,$51
        .byte "_OUT (C)",$2C,'E',2,$ED,$59
        .byte "_OUT (C)",$2C,'H',2,$ED,$61
        .byte "_OUT (C)",$2C,'L',2,$ED,$69
        .byte "_OUTD",2,$ED,$AB
        .byte "_OUTI",2,$ED,$A3
        .byte "_POP IX",2,$DD,$E1
        .byte "_POP IY",2,$FD,$E1
        .byte "_PUSH IX",2,$DD,$E5
        .byte "_PUSH IY",2,$FD,$E5

        .byte "_RES #",$2C,"(HL)",2,$CB,$86
;       .byte "_RES #",$2C,"(IX+#)",2,$DD,$CB
;       .byte "_RES #",$2C,"(IY+#)",2,$FD,$CB
        .byte "_RES #",$2C,'A',2,$CB,$87
        .byte "_RES #",$2C,'B',2,$CB,$80
        .byte "_RES #",$2C,'C',2,$CB,$81
        .byte "_RES #",$2C,'D',2,$CB,$82
        .byte "_RES #",$2C,'E',2,$CB,$83
        .byte "_RES #",$2C,'H',2,$CB,$84
        .byte "_RES #",$2C,'L',2,$CB,$85
        .byte "_RETI",2,$ED,$4D
        .byte "_RETN",2,$ED,$45
```

```
        .byte "_RL (HL)",2,$CB,$16
;       .byte "_RL (IX+#)",2,$DD,$CB
;       .byte "_RL (IY+#)",2,$FD,$CB
        .byte "_RL A",2,$CB,$17
        .byte "_RL B",2,$CB,$10
        .byte "_RL C",2,$CB,$11
        .byte "_RL D",2,$CB,$12
        .byte "_RL E",2,$CB,$13
        .byte "_RL H",2,$CB,$14
        .byte "_RL L",2,$CB,$15
        .byte "_RLC (HL)",2,$CB,$06
;       .byte "_RLC (IX+#)",2,$DD,$CB
;       .byte "_RLC (IY+#)",2,$FD,$CB
        .byte "_RLC A",2,$CB,$07
        .byte "_RLC B",2,$CB,$00
        .byte "_RLC C",2,$CB,$01
        .byte "_RLC D",2,$CB,$02
        .byte "_RLC E",2,$CB,$03
        .byte "_RLC H",2,$CB,$04
        .byte "_RLC L",2,$CB,$05
        .byte "_RLD",2,$ED,$6F
        .byte "_RRD",2,$ED,$67
        .byte "_RR (HL)",2,$CB,$1E
;       .byte "_RR (IX+#)",2,$DD,$CB
;       .byte "_RR (IY+#)",2,$FD,$CB
        .byte "_RR A",2,$CB,$1F
        .byte "_RR B",2,$CB,$18
        .byte "_RR C",2,$CB,$19
        .byte "_RR D",2,$CB,$1A
        .byte "_RR E",2,$CB,$1B
        .byte "_RR H",2,$CB,$1C
        .byte "_RR L",2,$CB,$1D
        .byte "_RRC (HL)",2,$CB,$0E
;       .byte "_RRC (IX+#)",2,$DD,$CB
;       .byte "_RRC (IY+#)",2,$FD,$CB
        .byte "_RRC A",2,$CB,$0F
        .byte "_RRC B",2,$CB,$08
        .byte "_RRC C",2,$CB,$09
        .byte "_RRC D",2,$CB,$0A
        .byte "_RRC E",2,$CB,$0B
        .byte "_RRC H",2,$CB,$0C
        .byte "_RRC L",2,$CB,$0D

        .byte "_SBC A",$2C,"(IX+#)",2,$DD,$9E
        .byte "_SBC A",$2C,"(IY+#)",2,$FD,$9E
        .byte "_SBC HL",$2C,"BC",2,$ED,$42
        .byte "_SBC HL",$2C,"DE",2,$ED,$52
        .byte "_SBC HL",$2C,"HL",2,$ED,$62
        .byte "_SBC HL",$2C,"SP",2,$ED,$72
        .byte "_SET #",$2C,"(HL)",2,$CB,$C6
;       .byte "_SET #",$2C,"(IX+#)",2,$DD,$CB
;       .byte "_SET #",$2C,"(IY+#)",2,$FD,$CB
```

```
        .byte "_SET #",$2C,'A',2,$CB,$C7
        .byte "_SET #",$2C,'B',2,$CB,$C0
        .byte "_SET #",$2C,'C',2,$CB,$C1
        .byte "_SET #",$2C,'D',2,$CB,$C2
        .byte "_SET #",$2C,'E',2,$CB,$C3
        .byte "_SET #",$2C,'H',2,$CB,$C4
        .byte "_SET #",$2C,'L',2,$CB,$C5

        .byte "_SLA (HL)",2,$CB,$26
;       .byte "_SLA (IX+#)",2,$DD,$CB
;       .byte "_SLA (IY+#)",2,$FD,$CB
        .byte "_SLA A",2,$CB,$27
        .byte "_SLA B",2,$CB,$20
        .byte "_SLA C",2,$CB,$21
        .byte "_SLA D",2,$CB,$22
        .byte "_SLA E",2,$CB,$23
        .byte "_SLA H",2,$CB,$24
        .byte "_SLA L",2,$CB,$25
        .byte "_SRA (HL)",2,$CB,$2E
;       .byte "_SRA (IX+#)",2,$DD,$CB
;       .byte "_SRA (IY+#)",2,$FD,$CB
        .byte "_SRA A",2,$CB,$2F
        .byte "_SRA B",2,$CB,$28
        .byte "_SRA C",2,$CB,$29
        .byte "_SRA D",2,$CB,$2A
        .byte "_SRA E",2,$CB,$2B
        .byte "_SRA H",2,$CB,$2C
        .byte "_SRA L",2,$CB,$2D

        .byte "_SRL (HL)",2,$CB,$3E
;       .byte "_SRL (IX+#)",2,$DD,$CB
;       .byte "_SRL (IY+#)",2,$FD,$CB
        .byte "_SRL A",2,$CB,$3F
        .byte "_SRL B",2,$CB,$38
        .byte "_SRL C",2,$CB,$39
        .byte "_SRL D",2,$CB,$3A
        .byte "_SRL E",2,$CB,$3B
        .byte "_SRL H",2,$CB,$3C
        .byte "_SRL L",2,$CB,$3D
        .byte "_SUB (IX+#)",2,$DD,$96
        .byte "_SUB (IY+#)",2,$FD,$96

        .byte "_XOR (IX+#)",2,$DD,$AE
        .byte "_XOR (IY+#)",2,$FD,$AE
```