Instruction ADC A.(HL) ADC A.(IX+d ADC A.(IX+d ADC A.(IX+d ADC A.A ADC A.B ADC A.C ADC A.D ADC A.E ADC A.E ADC A.H	8E 1 DD 8E d 3 FD 8E d 3 8F 1 88 1 89 1 8A 1 8B 1	3/T Flags 1/7 -zvc 8/19 -zvc 1/4 -zvc 1/4 -zvc 1/4 -zvc 1/4 -zvc 1/4 -zvc	Instruction CALL addr CALL c,addr CALL m,addr CALL nz,addr CALL p,addr CALL p,addr CALL p,addr CALL p,addr CALL p,addr	Opcodes CD dr ad DC dr ad FC dr ad D4 dr ad C4 dr ad F4 dr ad E4 dr ad EC dr ad CC dr ad	B/T 3/17/20 3/11710 1200 3/11710 1200 3/11710 1200 3/11710 1200 3/11710 1200 3/11710 1200 3/11710 1200 3/11710 1200	Flags	Instruction LD (IY+d),A LD (IY+d),B LD (IY+d),C LD (IY+d),D LD (IY+d),E LD (IY+d),H LD (IY+d),L LD (IY+d),L LD (IY+d),n LD A,(addr)	Opcodes FD 77 d FD 70 d FD 71 d FD 72 d FD 73 d FD 75 d FD 75 d FD 36 d n 3A dr ad	3/19 - 3/19 - 3/19 - 3/19 - 3/19 - 3/19 - 3/19 - 4/19 -	LD IXL LD IXL LD IXL	A DD 6 B DD 6 C DD 6 C DD 6 E DD 6 XH DD 6 XL DD 6 I DD 2	2 / 8 2 / 8		Instruction RES 7,(HL) RES 7,(IX+d) RES 7,(IY+d) RES 7,A RES 7,B RES 7,C RES 7,D RES 7,E RES 7,H		B/T 2/15 4/23 4/23 2/8 2/8 2/8 2/8 2/8 2/8	Flags	Instruction SET 4,(HL) SET 4,(IX+d) SET 4,(IY+d) SET 4,A SET 4,B SET 4,C SET 4,D SET 4,E SET 4,L	CB E6 2 DD CB d E6 4 FD CB d E6 4 CB E7 CB E0 CB E1 CB E2 CB E3	B/T Flags 2/15 4/23 2/8 2/8 2/8 2/8 2/8 2/8 2/8
ADC A,IXH ADC A,IYH ADC A,L ADC A,IXL ADC A,IYL ADC A,I ADC HL,BC ADC HL,BC ADC HL,DE ADC HL,HL ADC HL,SP	FD 8C 2 8D 1 DD 8D 2 FD 8D 2 CE n 2 ED 4A 2 ED 5A 2 ED 6A 2 ED 7A 2	2/8 -zvc 2/8 -zvc 2/8 -zvc 2/8 -zvc 2/7 -zvc 2/15 -zvc 2/15 -zvc 2/15 -zvc	CCF CP (HL) CP (IX+d) CP (IY+d) CP A CP B CP C CP D CP E CP H	3F BE DD BE d FD BE d BF B8 B9 BA BB BB	1/4 1/7 3/19 3/19 1/4 1/4 1/4 1/4 1/4	X -= v < -= v <	LD A,(BC) LD A,(DE) LD A,(HL) LD A,(IX+d) LD A,(IY+d) LD A,A LD A,B LD A,C LD A,D	/ F/A dr ad 0A 1A 7E DD 7E d FD 7E d 7F 78 79 7A	1/78 - 1/78 - 3/19 - 3/19 - 1/4 - 1/4 - 1/4 - 1/4 -	LD IYL LD R,A LD SP, LD SP,	C FD 6 D FD 6 E FD 6 YH FD 6 YL FD 6 D FD 26 ED 4 addr) ED 78 c ilo 31 lo	2 / 8 2 / 8	   1 1 0	RES 7,L RET RET C RET M RET NC RET NZ RET P RET PE RET PO RET Z	CB BD C9 D8 F8 D0 C0 F0 E8 E0 C8	2/8 1/10 12 1/t118 8/16 1/t118 8/16 1/t118 8/16 1/t118 8/16 1/t118 8/16 1/t118 8/16		SET 5,A SET 5,B SET 5,C SET 5,D SET 5,E SET 5,H	CB EE 2 DD CB d EE 4 FD CB d EE 4 CB EF 5 CB E8 5 CB E9 5 CB EA 6 CB EB 6 CB EC 5	2/8 2/15 4/23 4/23 2/8 2/8 2/8 2/8 2/8 2/8 2/8
ADD A,(HL) ADD A,(IX+d ADD A,(IY+d ADD A,D	DD 86 d 3 FD 86 d 3 87 1 80 1 81 1 82 1 83 1 84 1	1/7	CP IXH CP IYH CP L CP IXL CP IYL CP n CPD CPD CPDR CPI CPIR	DD BC FD BC BD DD BD FD BD FE n ED A9 ED B9 ED A1 ED B2	2/8 2/8 1/4 2/8 2/8 2/7 2/16 2/=16#21 2/16 2/=16#21	- = v < - = v c - = v c - = v < - = v < - = v < ? - BC - ? - BC - ? - BC - ? - BC -	LD A,E LD A,H LD A,IXH LD A,IYH LD A,I LD A,I LD A,L LD A,I	7B 7C DD 7C FD 7C ED 57 7D DD 7D FD 7D 3E n FO n	1/4 - 2/8 - 2/8 - 2/9 - 1/4 - 2/8 - 2/8 -	LD SP, LDD :i- LDDR LDI A,(	X DD F Y FD F ED A ED B IL) 2A I,A 22 HL) 32	2/10 3 2/10 3 2/216n2 2/8 2/8 2/8 2/8 2/8	0 0 6BC 	RETI RETN RL (HL) RL (IX+d) RL (IY+d) RL A RL B RL C RL D RL E	ED 4D / D9 ED 45 CB 16 DD CB d 16 FD CB d 16 CB 17 CB 10 CB 11 CB 12 CB 13	1/8 2/14 2/15 4/23 4/23 2/8 2/8 2/8 2/8 2/8	- z p r7 - z p r7	SET 5,L SET 6,(HL) SET 6,(IX+d) SET 6,(IY+d) SET 6,B SET 6,C SET 6,D SET 6,E SET 6,H	CB F6 2 DD CB d F6 4 FD CB d F6 4 CB F7 CB F0 CB F1 CB F2 CB F3	2/8 2/15 4/23 4/23 2/8 2/8 2/8 2/8 2/8 2/8 2/8
ADD A,IYH ADD A,IXL ADD A,IXL ADD A,IYL ADD A,IYL ADD HL,BC ADD HL,BC ADD HL,HL ADD HL,SP ADD IX,BC	85 1 DD 85 2 FD 85 2 C6 n 2 09 1 19 1 29 1 39 1 DD 09 2	2/8 -zvc //4 -zvc 2/8 -zvc 2/8 -zvc 2/7 -zvc 1/11c 1/11c 1/11c 1/11c 1/11c	DAA DEC (HL) DEC (IX+d) DEC (IY+d) DEC A DEC B DEC BC DEC C DEC C	2F 27 35 DD 35d FD 35d 3D 5 0B 0D 15	1/4 1/4 1/11 3/23 3/23 1/4 1/4 1/6 1/4	- Z P C - Z V - - S UG - Z V - - Z V - - Z V -	LD A,(SFF00+C) LD A,R LD B,(HL) LD B,(IX+d) LD B,(IY+d) LD B,A LD B,B LD B,C LD B,D LD B,E	F2 ED 5F 46 DD 46 d FD 46 d 47 40 41 42 43	1/7 - 3/19 - 3/19 - 1/4 - 1/4 - 1/4 - 1/4 - 1/4 -	:i- NEG NOP OR (HI OR (IX OR A OR B OR C	d) DD 86 d) FD 86 B7 B0 B1 B2	2 /8 1 /4 1 /7 d 3 /19 d 3 /19 1 /4 1 /4 1 /4	- z A80 A0 - z P - - 2 P -	RL H RL L RLA RLC (HL) RLC (IX+d) RLC (IY+d) RLC A RLC B RLC C RLC D	CB 14 CB 15 17 CB 06 DD CB d 06 FD CB d 06 CB 07 CB 00 CB 01 CB 02	2/8 2/8 1/4 2/15 4/23 4/23 2/8 2/8 2/8 2/8	- z p r7 - z p r7	SET 7,(IY+d) SET 7,A SET 7,B SET 7,C SET 7,D SET 7,E SET 7,H	CB FE 2 DD CB d FE 4 FD CB d FE 4 CB FF 5 CB F8 5 CB F9 5 CB FA 5 CB FB 5 CB FC 5	2/8 2/15 4/23 2/8 2/8 2/8 2/8 2/8 2/8 2/8
ADD IX,DE ADD IX,IX ADD IX,SP ADD IY,BC ADD IY,DE ADD IY,IY ADD IY,SP ADD SP,n AND (HL) AND (IX+d) AND (IY+d)	DD 29 2 DD 39 2 FD 09 2 FD 19 2 FD 29 2 FD 39 2 E8 n 1 A6 1 DD A6 d 3	2/15 c 2/15 c 2/15 c 2/15 c 2/15 c 2/15 c 2/15 c 2/16 nzvc 1/16 nzvc 1/17 -zpc 3/19 -zpc	DEC DE DEC E DEC H DEC IXH DEC IYH DEC HL DEC IX DEC IY DEC L DEC IXL DEC IYL	1B 1D 25 DD 25 FD 25 2B DD 2B FD 2B 2D DD 2D FD 2D	1/6 1/4 1/4 2/8 2/8 1/6 2/10 12 2/10 12 1/4 2/8	BUG - Z V Z V Z V Z V BUG BUG	LD B,H LD B,IXH LD B,IYH LD B,L LD B,IXL LD B,IYL LD BC,(addr) LD BC,(addr) LD BC,(HL) LD C,(HL) LD C,(IX+d)	44 DD 44 FD 44 45 DD 45 FD 45 06 n ED 4B dr ad 01 lo hi 4E DD 4E d	1/4 - 2/8 - 2/8 - 1/4 - 2/8 - 2/8 - 2/8 - 2/78 - 4/20 - 3/10 12 - 1/7 - 3/19	OR H OR IXH OR IYH OR IXL OR IXL OR IYL OR IYL OR n OTDR OTIR	B3 B4 DD B FD B B5 DD B F6 r ED B ED B	2 / 8 1 / 4 5 2 / 8 6 2 / 8 2 / 7 8 2 / z16nz 8 2 / z16nz	- zp	RLC E RLC H RLC L RLCA RLD RR (HL) RR (IX+d) RR (IY+d) RR A RR B RR C	CB 03 CB 04 CB 05 7 ED 6F CB 1E DD CB d 1E FD CB d 1E CB 1F CB 18 CB 19	2/8 2/8 2/8 1/4 2/18 2/15 4/23 4/23 2/8 2/8	- z p r7 - z p r7 - z p r7 - z p - - z p r0 - z p r	SET 7,L SLA (HL) SLA (IX+d) SLA (IY+d) SLA B SLA C SLA D SLA E SLA E SLA E SLA L	CB 26 2 DD CB d 26 4 FD CB d 26 4 CB 27 CB 20 CB 21 CB 22 CB 23 CB 24	2/8 2/15 -zpr7 4/23 -zpr7 4/23 -zpr7 2/8 -zpr7
AND A AND B AND C AND D AND E AND H AND IXH AND IYH AND L AND IXL	A7 1 A0 1 A1 1 A2 1 A3 1 A4 1 DD A4 2 FD A4 2 A5 1 DD A5 2		EX (SP),HL EX (SP),IX EX (SP),IY EX AF,AF' EX DE,HL EXX	3B F3 10 d FB E3 DD E3 FD E3 8 EB D9	1/6 1/4 2/t13f8 1/4 1/19 2/23 2/23 1/4 1/4	s' z' p' c'	LD C,(Y+d) LD C,A LD C,B LD C,C LD C,D LD C,E LD C,H LD C,IXH LD C,IYH LD C,L	DD 4E d 4F 48 49 4A 4B 4C DD 4C FD 4C 4D	3/19 - 1/4 - 1/4 - 1/1 - 1/1 - 1/4 - 1/4 - 2/8 - 2/8 - 1/4 -	OUT (0 OUT	,B ED 4 ,C ED 4 ,D ED 5 ,E ED 5 ,H ED 6 ,L ED 6 ,A D3 r ED A F1	2/12 2/12 2/12 2/12 2/12 2/12 2/12 2/11 3 2/16 3 2/16	16 16 16 16 16 12 25 ?⇔B? 25 Popped	RR D RR E RR H RR L RRC (HL) RRC (IX+d) RRC (IY+d) RRC A RRC B	CB 1A CB 1B CB 1C CB 1D 1F CB 0E DD CB d 0E FD CB d 0E CB 0F CB 08	2/8 2/8 2/8 2/8 1/4 2/15 4/23 4/23 2/8 2/8	- z p r0 - z p r0 - z p r0 - z p r0 r0 - z p r0 - z p r0	SLL (HL) SLL (IX+d) SLL (IY+d) SLL A SLL B SLL C SLL D SLL E SLL H SLL L	CB 36 2 DD CB d 36 4 FD CB d 36 4 CB 37 CB 30 CB 31 CB 32 CB 33 CB 34 CB 35 CB 35	2/15 -zpr7 4/23 -zpr7 4/23 -zpr7 4/23 -zpr7 2/8 -zpr7 2/8 -zpr7 2/8 -zpr7 2/8 -zpr7 2/8 -zpr7 2/8 -zpr7 2/8 -zpr7
AND IYL AND n BIT 0,(HL) BIT 0,(IX+d) BIT 0,(IY+d) BIT 0,A BIT 0,B BIT 0,C BIT 0,D BIT 0,E BIT 0,E	E6 n 2 CB 46 2 CB DD46 d 4 CB FD46 d 4 CB 47 2 CB 40 2 CB 41 2 CB 42 2 CB 43 2	2/8 -zvc 2/17 -zpc 2/12 ? >b 1/20 ? >b 	? - IM 2 ? - IN A,(C) ? - IN A,(n) ? - IN B,(C) ? - IN C,(C) ? - IN D,(C) ? - IN E,(C)	76 ED 46 ED 56 ED 5E ED 78 DB n ED 40 ED 48 ED 50 ED 58 ED 60	1 / min 4 2 / 8 2 / 8 2 / 8 2 / 12 16 2 / 12 16	BUG Z p Z p Z p Z p Z p Z p Z p -	LD C,IXL LD C,IYL LD C,n LD D,(HL) LD D,(IX+d) LD D,(IY+d) LD D,A LD D,B LD D,C LD D,D LD D,E	DD 4D FD 4D 0E n 56 DD 56 d FD 56 d 57 50 51 52 53	2/8 - 2/8 - 2/78 - 1/7 - 3/19 - 3/19 - 1/4 - 1/4 - 1/4 - 1/4 -	POP D POP IX POP IX POP IX PUSH PUSH PUSH PUSH PUSH	D1 E1 DD E FD E F F5 GC C5 DE D5 LL E5 C DD E	2/14 1/1: 1/1: 1/1: 1/1: 5 2/1!	0 0 4 1 1 1 1	RRC C RRC D RRC E RRC H RRC L RRCA RRD RST 0 RST 8 (1) RST 16 (2) RST 24 (3)	CB 09 CB 0A CB 0B CB 0C CB 0D 0F ED 67 C7 CF D7 DF	2/8 2/8 2/8 2/8 2/8 1/4 2/18 1/11 16 1/11 16 1/11 16	- z p r0 - z p r0 - z p r0 - z p r0 - z p r0 r0 - z p -	SRA (HL) SRA (IX+d) SRA (IY+d) SRA A SRA B SRA C SRA D SRA E SRA H SRA L SRL (HL)	DD CB d 2E 4 FD CB d 2E 4 CB 2F CB 28 CB 29 CB 2A CB 2B CB 2C CB 2D	2/15 -zpr0 4/23 -zpr0 4/23 -zpr0 2/8 -zpr0 2/8 -zpr0 2/8 -zpr0 2/8 -zpr0 2/8 -zpr0 2/8 -zpr0 2/8 -zpr0
BIT 0,L BIT 1,(HL) BIT 1,(IX+d) BIT 1,(IY+d) BIT 1,A BIT 1,B BIT 1,C BIT 1,D BIT 1,E BIT 1,E	CB 45 2 CB 4E 2 CB DD4E d 4 CB FD4E d 4 CB 1F 2 CB 48 2 CB 49 2 CB 4A 2 CB 4B 2 CB 4C 2	2/8 ? 2/12 ? 2/12 ? 4/20 ? 2/8 ? <b< td=""><td>? - IN L,(C) ? - INC (HL) ? - INC (IX+d) ? - INC (IX+d) ? - INC A ? - INC B ? - INC B ? - INC B ? - INC C ? - INC C</td><td>ED 68 34 DD 34 d FD 34 d 3C 4 3 0C 14 13</td><td>2/12 16 1/11 12 3/23 24 3/23 24 1/4 1/4 1/6 8 1/4 1/4 1/6 8</td><td>- Z P Z V Z V Z V Z V BUG - Z V Z V BUG</td><td>LD D,H LD D,IXH LD D,IYH LD D,L LD D,IXL LD D,IYL LD D,n LD DE,(addr) LD DE,hilo LD E,(HL)</td><td>54 DD 54 FD 54 55 DD 55 FD 55 16 n ED 58 dr ad 11 lo hi 5E</td><td>1/4 - 2/8 - 2/8 - 1/4 - 2/8 - 2/8 - 2/78 - 4/20 - 3/1012 - 1/7 -</td><td> RES 0, RES 0,</td><td>HL) CB 8   X+d) DD CB 6   Y+d) FD CB 6   CB 8   CB 8</td><td>3 2/18 86 4/23 86 4/23 7 2/8 9 2/8 1 2/8 2 2/8 2 2/8 5 2/8</td><td>3 3 3 1 1 1 1 1</td><td>RST 32 (4) RST 40 (5) RST 48 (6) RST 56 (7) SBC A,(HL) SBC A,(IY+d) SBC A,(IY+d) SBC A,B SBC A,B</td><td>E7 EF F7 FF 9E ) DD 9Ed</td><td>1/11 16 1/11 16 1/11 16 1/11 16 1/11 16 1/7 3/19 3/19 1/4 1/4</td><td></td><td>SRL (IX+d) SRL (IY+d) SRL A SRL B SRL C SRL D SRL E SRL H SRL L STOP</td><td>DD CB d 3E 4 FD CB d 3E 4 CB 3F CB 38 CB 39 CB 3A CB 3B CB 3C CB 3D</td><td>4/23 -zpr0 4/23 -zpr0 2/8 -zpr0</td></b<>	? - IN L,(C) ? - INC (HL) ? - INC (IX+d) ? - INC (IX+d) ? - INC A ? - INC B ? - INC B ? - INC B ? - INC C ? - INC C	ED 68 34 DD 34 d FD 34 d 3C 4 3 0C 14 13	2/12 16 1/11 12 3/23 24 3/23 24 1/4 1/4 1/6 8 1/4 1/4 1/6 8	- Z P Z V Z V Z V Z V BUG - Z V Z V BUG	LD D,H LD D,IXH LD D,IYH LD D,L LD D,IXL LD D,IYL LD D,n LD DE,(addr) LD DE,hilo LD E,(HL)	54 DD 54 FD 54 55 DD 55 FD 55 16 n ED 58 dr ad 11 lo hi 5E	1/4 - 2/8 - 2/8 - 1/4 - 2/8 - 2/8 - 2/78 - 4/20 - 3/1012 - 1/7 -	RES 0,	HL) CB 8   X+d) DD CB 6   Y+d) FD CB 6   CB 8	3 2/18 86 4/23 86 4/23 7 2/8 9 2/8 1 2/8 2 2/8 2 2/8 5 2/8	3 3 3 1 1 1 1 1	RST 32 (4) RST 40 (5) RST 48 (6) RST 56 (7) SBC A,(HL) SBC A,(IY+d) SBC A,(IY+d) SBC A,B SBC A,B	E7 EF F7 FF 9E ) DD 9Ed	1/11 16 1/11 16 1/11 16 1/11 16 1/11 16 1/7 3/19 3/19 1/4 1/4		SRL (IX+d) SRL (IY+d) SRL A SRL B SRL C SRL D SRL E SRL H SRL L STOP	DD CB d 3E 4 FD CB d 3E 4 CB 3F CB 38 CB 39 CB 3A CB 3B CB 3C CB 3D	4/23 -zpr0 4/23 -zpr0 2/8 -zpr0
BIT 1,L BIT 2,(HL) BIT 2,(IY+d) BIT 2,(LY+d) BIT 2,A BIT 2,B BIT 2,C BIT 2,D BIT 2,E BIT 2,H BIT 2,L	CB 56 2 CB FD56 d 4 CB DD56 d 4 CB 57 2 CB 50 2 CB 51 2 CB 52 2 CB 53 2 CB 54 2	2/8 ? ⇔b 2/12 ? ⇔b 2/12 ? ⇔b 2/12 ? ⇔b 2/8 ? ⇔b	? - INC IXH ? - INC IYH ? - INC HL ? - INC IX ? - INC IX ? - INC L ? - INC IXL ? - INC IYL	1C 24 DD 24 FD 24 23 DD 23 FD 23 2C DD 2C FD 2C 33	1/4 1/4 2/8 2/8 1/68 2/10 2/10 1/4 2/8 1/6	- Z V - - Z V - - Z V - - Z V - BUG  - Z V - - Z V - - Z V -	LD E,(IX+d) LD E,(IY+d) LD E,A LD E,B LD E,C LD E,D LD E,E LD E,H LD E,IXH LD E,IYH LD E,L	DD 5E d FD 5E d 5F 58 59 5A 5B 5C DD 5C FD 5C 5D	1/4 - 1/4 - 1/4 - 1/4 -	RES 1, RES 1, RES 1, RES 1, RES 1, RES 1, RES 1, RES 1,	X+d  DD CB	8E 4/23 8E 4/23 2/8 3 2/8 9 2/8 4 2/8 3 2/8 2 2/8 0 2/8	3 3 1 1 1 1	SBC A,D SBC A,E SBC A,IXH SBC A,IXH SBC A,IXL SBC A,IXL SBC A,IXL SBC A,IXL SBC A,IXL SBC A,IXL SBC A,IXL SBC A,IXL	9A 9B 9C DD 9C FD 9C 9D DD 9D FD 9D DE n ED 42 ED 52	1/4 1/4 1/4 2/8 2/8 1/4 2/8 2/7 2/15 2/15	- z v b - z v b	SUB (HL) SUB (IX+d) SUB (IY+d) SUB (Y+d) SUB A SUB B SUB C SUB D SUB E SUB H SUB IXH SUB IYH	97 90 91 92 93 94 DD AC	1/7 -zvb 3/19 -zvb 3/19 -zvb 1/4 -zvb 2/8 -zvb
BIT 3,(HL) BIT 3,(IX+d) BIT 3,(IX+d) BIT 3,(IY+d) BIT 3,B BIT 3,C BIT 3,D BIT 3,E BIT 3,H BIT 3,L	CB 5E 2 CB DD5E d 4 CB FD5E d 4 CB 5F 2 CB 58 2 CB 59 2 CB 5A 2 CB 5B 2 CB 5C 2	2/12 ? <>b	? - IND ? - INDR ? - INIR ? - INI ? - JP (HL) ? - JP (IX) ? - JP (IX) ? - JP (Addr ? - JP c,addr ? - JP m,addr	ED AA ED BA ED BA ED B2 E9 DD E9 FD E9 C3 dr ad DA dr ad FA dr ad	2/16/25 2/z16/221 2/16/25 2/z16/221 1/4 2/8 2/8 3/10/12 3/10/12 3/10/12	? OB?- ?-?- ? OB?- ?-?-	LD E,IXL LD E,IXL LD E,IYL LD E,n LD H,(HL) LD H,(IX+d) LD H,(IY+d) LD H,A LD H,B LD H,C LD H,D	DD 5D FD 5D 1E n 66 DD 66 d FD 66 d 67 60 61 62	2/8 - 2/8 - 2/78 - 1/7 - 3/19 - 3/19 - 1/4 - 1/4 - 1/4 -	RES 2, RES 2, RES 2, RES 2, RES 2,	X+d) DD CB (Y+d) FD CB (CB 9) CB 9 C CB 9	96 4/23 96 4/23 7 2/8 9 2/8 1 2/8 2 2/8 3 2/8 4 2/8	3 3   	SBC HL, HL SBC HL, HL SBC HL, SP SCF SET 0, (IX+d) SET 0, (IY+d) SET 0, B SET 0, B SET 0, C SET 0, D	ED 62 ED 72 37 CB C6 DD CB d C6	2/15 2/15 1/4 2/15 4/23 4/23 2/8 2/8 2/8 2/8	-zvb	SUB IT IN SUB IXL SUB IXL SUB IYL SUB IY IX SUB IY IX SWAP A SWAP B SWAP C SWAP D SWAP E SWAP H	95 DD AD FD AD D6 n CB 37 CB 30 CB 31 CB 32 CB 33	1/4 - zvb 2/8 - zvb 2/8 - zvb 2/7 - zvb 2/8 - zvz 2/8 - zvz 2/8 - zvz 2/8 - zvz 2/8 - zvz 2/8 - zvz 2/8 - zvz
BIT 4,(HL) BIT 4,(IY+d) BIT 4,(IY+d) BIT 4,A BIT 4,B BIT 4,C BIT 4,D BIT 4,E BIT 4,H BIT 4,H	CB FD66 d 4 CB DD66 d 4 CB 67 2 CB 60 2 CB 61 2 CB 62 2 CB 63 2 CB 64 2 CB 65 2	2/12 ? 2/12 ? 2/20 ? 2/8	? - JP nz,addr ? - JP p,addr ? - JP po,addr ? - JP pe,addr ? - JP z,addr ? - JR d ? - JR d ? - JR nc,d	D2 dr ad C2 dr ad F2 dr ad E2 dr ad EA dr ad CA dr ad 38 d 18 d 30 d 20 d	3 / 10 12 3 / 10 12 2 / 1127 8/12 2 / 1127 8/12 2 / 1127 8/12 2 / 1127 8/12		LD H,E LD H,H LD H,n LD IXH,A LD IXH,B LD IXH,C LD IXH,C LD IXH,D LD IXH,E LD IXH,E	63 64 65 26 n DD 67 DD 60 DD 61 DD 62 DD 63 DD 64	1/4 -	RES 3, RES 3, RES 3, RES 3, RES 3, RES 3, RES 3, RES 3, RES 3,	CB 9	9E 4/23 2/8 3 2/8 2/8 2/8 2/8 2/8 2/8 2/8 2/8	3 i i i i i i	SET 0,E SET 0,H SET 0,L SET 1,(IX+d) SET 1,(IX+d) SET 1,IX+d) SET 1,A SET 1,B SET 1,C SET 1,D		2/8 2/8 2/8 2/15 4/23 4/23 2/8 2/8 2/8		SWAP L SWAP (HL) XOR (HL) XOR (IX+d) XOR (IX+d) XOR A XOR B XOR C XOR D XOR E XOR H	CB 36 2 AE DD AC d 3 FD AC d 3 AF A8 A9 AA AB	2/8 -zvz 2/16 -zvz 1/7 -zp- 3/19 -zp- 3/19 -zp- 1/4 -zp- 1/4 -zp- 1/4 -zp- 1/4 -zp- 1/4 -zp-
BIT 5,(HL) BIT 5,(IX+d) BIT 5,(IY+d) BIT 5,A BIT 5,B BIT 5,C BIT 5,C BIT 5,D BIT 5,E BIT 5,H	CB DD6E d 4  CB FD6E d 4  CB 6F 2  CB 68 2  CB 69 2  CB 6A 2  CB 6B 2  CB 6C 2	1/20 ? <>b 1/8 ? <>b	? - LD (addr),A ? - LD (addr),BC ? - LD (addr),DE ? - LD (addr),HL ? - LD (addr),HL ? - LD (addr),IY ? - LD (addr),SP	28 d 32 dr ad /EA dr ad ED 43 dr ad ED 53 dr ad 22 dr ad ED 63 dr ad DD 22 dr ad ED 63 dr ad DD 22 dr ad ED 73 dr ad /08 dr ad	3/13 4/20 24 4/20 24 3/16 24 4/20 24 4/20 24 4/20 24 4/20 24		LD IXH,IXL LD IXH,n LD IYH,A LD IYH,B LD IYH,C LD IYH,D LD IYH,E LD IYH,IYH LD IYH,IYL	DD 65 DD 26 n FD 67 FD 60 FD 61 FD 62 FD 63 FD 64 FD 65	3/11 - 2/8 - 2/8 - 2/8 - 2/8 - 2/8 - 2/8 - 2/8 - 2/8 -	RES 4, RES 4, RES 4, RES 4, RES 4, RES 4, RES 4,	Y+d) FD CB a CB A C CB A	A6 4/23 7 2/8 0 2/8 1 2/8 2 2/8 3 2/8 4 2/8	3 i i i i	SET 1,E SET 1,H SET 2,(HL) SET 2,(IX+d) SET 2,(IY+d) SET 2,B SET 2,B	CB CD CB D6 DD CB d D6 FD CB d D6 CB D7 CB D7 CB D0 CB D1	2/8 2/8 2/8 2/15 4/23 4/23 2/8 2/8 2/8		XOR IXH  XOR IYH  XOR L  XOR IXL  XOR IYL  XOR n  BUG: INC rr / D  &FEFF will caus	FD AD : AD DD AC : FD AD :	r
BIT 5,L BIT 6,(HL) BIT 6,(IX+d) BIT 6,I(Y+d) BIT 6,A BIT 6,B BIT 6,C BIT 6,D BIT 6,E BIT 6,H BIT 6,L	CB 76 2 CB DD76 d 4 CB FD76 d 4 CB F77 2 CB 70 2 CB 71 2 CB 72 2 CB 73 2 CB 74 2	2/8 ? < b 2/12 ? < b 4/20 ? < b 4/20 ? < b 4/20 ? < b 2/8 ? < b	? - LD (DE),A ? - ? - LD (HL),A ? - LD (HL),B ? - LD (HL),D ? - LD (HL),D ? - LD (HL),E ? - LD (HL),H ? - LD (HL),H	2 12 77 70 71 72 73 74 75 36 n	1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7 2/10		LD IYH,n LD HL,(addr) LD HL,(addr) LD HL,hilo LD HL,SP+n LD IA, LD IX,(addr) LD IX,hilo LD IY,(addr) LD IY,(iddr)	FD 26 n 2A dr ad ED 6B dr ad 21 lo hi F8 n ED 47 DD 2A dr ad DD 21 lo hi FD 2A dr ad FD 21 lo hi 6E	3/11 - 3/16 - 4/20 - 3/10 12 - 2/12 - 2/9 - 4/20 - 4/14 - 4/20 - 4/14 - 1/7	RES 5, RES 5, RES 5, RES 5, RES 5, RES 5, RES 5, RES 5,	X+d)   DD CB c   Y+d)   FD CB c   CB A   C	AE 4/23 AE 4/23 E 2/8 B 2/8 A 2/8 B 2/8 C 2/8 C 2/8	3	SET 2,D SET 2,E SET 2,H SET 2,L SET 3,(HL) SET 3,(IX+d) SET 3,A SET 3,B SET 3,C SET 3,D		2/8 2/8 2/8 2/8 2/15 4/23 4/23 2/8 2/8 2/8			Il 'skip' one comma	
BIT 7,(HL) BIT 7,(HL) BIT 7,(IX+d) BIT 7,(IY+d) BIT 7,A BIT 7,B BIT 7,C BIT 7,D BIT 7,E BIT 7,H BIT 7,L	CB 7E 2 CB DD7E d 4 CB FD7E d 4 CB 7F 2 CB 78 2 CB 79 2 CB 7A 2 CB 7B 2 CB 7C 2	? / 12 ? <>b I / 20 ? <>b	? - LD (SFF00+C),A ? - LD (SFF00+n) , A ? - LD (IX+d),A ? - LD (IX+d),B !- LD (IX+d),C ? - LD (IX+d),C ? - LD (IX+d),E ? - LD (IX+d),H ? - LD (IX+d),L	E2 E0 n DD 77 d DD 70 d DD 71 d DD 72 d DD 73 d DD 71 d DD 75 d DD 36d n	2/10 2/8 2/12 3/19 3/19 3/19 3/19 3/19 3/19 3/19 4/19		LD L,(HL) LD L,(IX+d) LD L,(IY+d) LD L,A LD L,B LD L,C LD L,D LD L,E LD L,E LD L,H LD L,L	6E DD 6E d FD 6E d 6F 68 69 6A 6B 6C 6D 2E n	3/19 - 3/19 - 1/4 - 1/4 - 1/4 - 1/4 - 1/4 - 1/4 -	RES 6, RES 6, RES 6, RES 6, RES 6, RES 6, RES 6, RES 6,	X+d	B6 4/23 B6 4/23 7 2/8 0 2/8 1 2/8 2 2/8 3 2/8	3	SET 3,E SET 3,H SET 3,L	CB DA CB DB CB DC CB DD Structions with LDH (n),A LDH A(n) LD (HL),A or LD (HL+ LD A (HL) or LD A (HL	2/8 2/8 2/8 the same n		Black: GBZ80 Blue: Z80 only Red: GBZ80 o Purple: Cpc Ti	nly	