Sheet1

\PH* \PL*	PH 0												
\decode	(int !=	(int != currInt) & (dIn[7:5] != 011) & !useK & !skip ? CurrInt = int, >>>> unfetch											
	(dln[7 (dln[7	5:5] != 5:5] != 5:5] != 5:5] != 7:5] != 7:5] == 7:1] == 7:1] ==	11 11 11 11 111 111 = 111) = 111(0110) 0111)	DIn[3:2 DIn[3:2 DIn[3:2 DIn[3:2	? >>>> ? Skip =	&!skip	DIn[1 DIn[1 dIn[1 DIn[1 ? >>>>					skip
\mA \mL \mCin \S \D \kD	$IR[7:5] == 111 ? IR[3:2] : IR[6:5]$ $IR[7:5] == 111 ? !IR[4] IR[3:2] : !IR[7] IR[6:5]$ $IR[7:5] == 111 ? !IR[4] & IR[2] : !IR[7] & IR[5]$ $\{00,IR[3:2]\}$ $\{00,IR[1:0]\}$ UseK ? 0011 : $\{00,IR[1:0\}\}$												
label		rA	rB	rW	dIn	dOut	wMer	n aSel	bSel	logSel	Cin sA	A7 A7	sA0 A0
fetch fetchII fetchI		PH* X X	PL* PH* x	PH*	? Inst Inst	? ? ?		0 0 0	0 B 0 B 0 B	В В В	1 1 0	0 x 0 x 0 x	0 x 0 x 0 x
unfetch		PH*	PL*	PL*	?	?		0	-2 B	В	1	0 x	0 x
skip2 skip1			PL* PL*			?		0 0	0 B 0 B	B B	1 1	0 x 0 x	0 x 0 x
test		K	K	K	?	?		0	0 B	۸	cnd	0 x	0 x
mathRR		S	kD	D	?	?		0 mA	В	mL	mCir	0 x	0 x

0 mA

В

 mL

0 x

mCir

0 x

S

kmathRR

?

kD K

?

Sheet1

	skip	!skip	!skip
		useK	!useK
= 0	>>> fetch	>>> test	>>> test
	>>> skip2	>>> kmathZZ	>>> mathZZ
	>>> skip1	>>> kmathRZ	>>> mathRZ
	>>> skip1	>>> kmathZR	>>> mathZR
	>>> fetch	>>> kmathRR	>>> mathRR
	>>> skip2	>>> kmathZI	>>> mathZI
	>>> skip1	>>> kmathRI	>>> mathRI

wIR wFL

- 0 0 C ? >>> fetchII : fetchI
- 1 0>>>> decode
- 1 0>>>> decode
- 0 0 >>>> fetch
- 0 0>>>> skip1
- 0 0 skip = 0, >>>> fetch
- 0 1>>>> fetch
- 0 1 UseK = 1, >>> fetch