## Sheet1

\PH* \PL*	PH   cur											
\PL"	PL   currInt<<2											
\decode	(int != currInt) & (dIn[7:5] != 011) & !useK & !skip ? CurrInt = int, >>>> unfetch											
	dln[7:5] == 011									skip		
	dIn[6:5]			_	] == 111							
	dIn[6:5] dIn[6:5]			dln[3:2	] != 11 ] == 11		-	0] == 11				
	din[6:5]			din[3:2	-		_	)] != 11 )] != 11				
	dln[7:5]			dln[3:2	-		-	)] == 11				
	dln[7:5] != 111											
	dIn[7:0]											
	dln[7:0] == 11101101											
	dln[7:0] == 11101110 dln[7:0] == 11101111											
	din[7:0]											
	dln[7:0]											
		[7:0] == 11111110										
	dIn[7:0]	== 1111	1111									
\mA	IR[7:5] == 111 ? IR[3:2] : IR[6:5]											
\mL	IR[7:5] == 111 ? !IR[4]   IR[3:2] : !IR[7]   IR[6:5]											
\mCin \S	IR[7:5] == 111 ? !IR[4] & IR[2] : !IR[7] & IR[5]											
\D	{00,IR[3:2]} {00,IR[1:0]}											
\kD	-	useK ? 0011 : {00,IR[1:0}										
label	rA	. rB	rW	dIn	dOut	wMem	aSel	bSel	logSel	Cin sA	7 A7 :	sA0 A0
									Ü			
fetch	PI	H* PL*	PI *	2	?	0	(	0 B	В	1	0 x	0 x
fetchII	X		PH*		?	0		0 B	В	1	0 x	0 x
fetchl	Х	Х	No	Inst	?	0	(	0 B	В	0	0 x	0 x
unfotob	DI	I* DI *	DI *	2	2	0		2 D	D	1	0.4	0.4
unfetch	Pi	H* PL*	PL*	?	?	0	-,	2 B	В	1	0 x	0 x
skip2		H* PL*			?	0	(	0 B	В	1	0 x	0 x
skip1	Pl	H* PL*	PL*	?	?	0	(	0 B	В	1	0 x	0 x
test	K	K	K	?	?	0	(	0 B	٨	cnd	0 x	0 x
										3	1	~ · ·
mathRR	S	kD	D	?	?	0	mA	В	mL	mCir	0 x	0 x

S kD K ? ? 0 mA B mL mCin 0 x

0 x

kmathRR

## Sheet1

```
!skip
                                !skip
       skip
                   useK
                                !useK
= 0
       >>> fetch
                   >>> test
       >>> skip2
                   >>> kmathZZ >>> mathZZ
       >>> skip1
                 >>> kmathRZ >>> mathRZ
       >>> skip1
                 >>> kmathZR >>> mathZR
       >>> fetch
                   >>> kmathRR >>> mathRR
       >>> skip2
                 >>> kmathZI >>> mathZI
       >>> skip1 >>> kmathRI >>> mathRI
       >>> skip2
                  >>> jump
       >>> skip2
                   >>> call
       >>> fetch >>> fetch
       >>> fetch
                  >>> return
       >>> skip1
                   >>> jumpZ
       >>> skip1
                   >>> callZ
       >>> skip1
                  >>> rjump
       >>> skip1
                   >>> table
```

## 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