

0.03.01

WISCoding for CON-DECON-ADA

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FLOW ORDER				HEXADECIMAL											
#	#	X	TYPE	A	B	C	#	X	T	A	B	C			
				CON SETUP											
			add	[Copy orders	[]	[]	360	100	8	36d	3ff	358			
			add	[] Into	[OPSTO	[]	1	100	8	36b	3ff	355			
			add	[]	[]	[]	2	100	8	36b	3ff	357			
			add	[]	[]	[]	3	100	8	36b	3ff	359			
			add	[]	[]	[]	4	100	8	36c	3ff	356			
Q			EXT	wi [Plant required	[]	[]	5	019	1	35f	01c	355			
J			EXT	wi [] addresses	[]	[]	6	019	1	35f	19c	357			
F			EXT	wf []	[]	[]	7	00d	1	35f	19c	359			
W			EXT	β []	[]	[]	8	001	1	35f	01c	356			
V			sub	[]	i ^c []	[]	9	100	a	355	3fd	355			
			TRA	[]	[]	[]	a	/	5	/	/	357			
				[]	[]	[]									
				Orders to be						b	100	8	35e	3ff	35d
				[copied into						c	100	e	359	357	-
				[] OPSTO						d	/	5	/	/	35e
				[]	[]	[]									
Clear Result CONF DELON?			SUB	Result	-	Result	→	Result	e	/	a	35e	35e	35e	
			tue	o	[]	-	LO	[]	[CON	f	100	e	3ff	35f	396
				[]	[]	[]									
				[]	[]	[]									
				[]	[]	[]									
				[]	[]	[]									
				[]	[]	[]									

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FLOW ORDER				A			B			C			#	HEXADECIMAL				
#	#	X	TYPE											X	T	A	B	C
<u>DECON</u>																		
N=0?		tza	N	[]	- 0	[]	[]	[]	370	100	d	35d	3ff	38d				
Unnormalized?		tna	N	[]	- 8 ^T	[]	[]	[HALT]	1	100	f	35d	3f8	3b8				
Roundup		ada	N	[]	+ Roundup	[]	[IN]	[]	2	100	9	35d	3b7	35c				
		ADD	1/2	[]	+ 0	[]	→ R	[]	3	/	8	3f8	3ff	35e				
				[]		[]		[]										
		TNE	N	[]	10 ¹⁰	[]	[]	[]	4	/	e	35c	3f5	378				
		DIV	N	[]	÷ 10 ¹⁰	[]	N	[]	5	/	3	35c	3f5	35c				
		MPY	R	[]	× 2 ¹⁶	[]	R	[]	6	/	2	35e	3e9	35e				
		TRA		[]		[]		[]	7	/	5	/	/	374				
Form decimal exponent Adjust N so that 1 ≤ N < 10		TNE	N	[]	10	[]	[]	[]	8	/	e	35c	3f6	37e				
		DIV	N	[]	10	[]	N	[]	9	/	3	35c	3f6	35c				
		MPY	R	[]	2	[]	R	[]	d	/	2	35e	3e2	35e				
		TRA		[]		[]		[]	b	/	5	/	/	378				
		TNE	10 ⁻⁹	[]	- N	[]	[]	[]	c	/	e	3f4	35c	380				
		MPY	N	[]	× 10 ¹⁰	[]	N	[]	d	/	2	35c	3f5	35c				
		DIV	R	[]	2 ¹⁶	[]	R	[]	e	/	3	35e	3e9	35e				
		TRA		[]		[]		[]	f	/	5	/	/	37c				
		TNE	.1111	[]	- N	[]	[]	[]	380	/	e	3ee	35c	384				
		MPY	N	[]	10 ⁺	[]	N	[]	1	/	2	35c	3b6	35c				
		DIV	R	[]	2	[]	R	[]	2	/	3	35e	3e2	35e				
		TRA		[]		[]		[]	3	/	5	/	/	38d				
				[]		[]		[]										
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				[]		[]		[]										

N < 10¹⁰

N < 10

N > 10⁻⁹

N > 1.

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FLOW ORDER						HEXADECIMAL					
#	X	TYPE	A	B	C	#	X	T	A	B	C
			[]	[]	[]						
Clear R (leave exponent)		sub	R []	R []	→ R []	384	100	a	3Se	3Se	3Se
Fix N		ADD	N []	+16 []	→ N []	5	/	8	3Sc	3fo	3Sc
		TRA	[]	[]	[]	6	/	5	/	/	389
			[]	[]	[]						
Form decimal number		div	R []	2 ⁻⁴ []	R []	7	100	3	3Se	3fa	3Se
		div	N []	+ 1/10 []	N []	8	100	3	3Sc	3bs	3Sc
		EXT	O []	[]	→ R []	9	024	1	800	014	3Se
		EXT	O []	[]	→ N []	2	001	1	3ff	245	3Se
		tne	R []	-1 ^T []	[]	6	100	e	3Se	3fa	387
			[]	[]	[]						
Insert sign		EXT	[]	[]	[]	38c	032	1	3Sd	321	3Se
		tnd	L0 []	-1 ^T []	[]	d	100	f	3Sf	3fa	3b2
		empty	8^T []	+8^T []	→ 3ff 4^T []	e	100	2	3fb	3fb	3ss
		PPT	[]	[]	[]	f	/	7	3Se	3Se	3b2
			[]	[]	[]						
			[]	[]	[]						
			[]	[]	[]						
			[]	[]	[]						
		tnd	L0 []	-1 ^T []	[]	390	100	f	3Sf	3fa	392
		add	4^T []	10 []	→ []	395	100	2	3Sf	3fb	3ss
			[]	[]	[]	1	/	0	3Sd	3Sd	392
		tza	N []	0 []	[]	2	100	d	3Sd	3ff	3b2
			[]	[]	[]						
			[]	[]	[]						
			[]	[]	[]						
			[]	[]	[]						

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[illegible]

7777 Setup

~~Form binary fraction~~

Set N
for experiment
adjusting

Form
binary
exponent

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FLOW ORDER	X	TYPE	A			B			C	#	HEXADECIMAL				
											X	T	A	B	C
		DIV	I		$\div$	N		N		3a8	/	3	3fe	35c	35c
		TNE			$\backslash$	2^{16}				9	/	e	$\backslash$	3a9	3ad
		DIV	R			10^{10}		R		a	/	3	35e	3f5	35e
		DIV	N			2^{16}		N		b	/	3	35c	3e9	35c
		TRA								c	/	5	/	/	3a9
		TNE	N			-2				d	/	e	35c	3ea	3b1
		DIV	N		$\div$	2		N		e	/	3	35c	3ea	35c
		DIV	R		$\div$	10		R		f	/	3	35e	3fb	35e
		TRA								3b0	/	5	/	/	3ad
		EXT	Sign	N				Sign	R	3b1	032	1	35d	321	35e
		add				$+1^c$				2	100	8	355	3fd	355
		add				$+1^A$				3	100	8	357	3fb	357
		TRA								4	/	5	/	/	355
						$\times 10$	fixed			5	/	1	999	999	999
						10^+				6	004	2	/	/	001
						Roundup				7	/	0	/	/	020
		B HTR				Halt if	unnormalized			8	200	6	/	/	3b8
						number	or if	a							
						negative	link to	ADA							

Form
binary
exponentInsert
signStep
addresses

Constants

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ADA

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FLOW ORDER		X	TYPE	HEXADECIMAL										
#	#			A	B	C	#	X	T	A	B	C		
				[<u>ADA</u>]	[]	[]								
				[]	[]	[]								
Initial Setup			add	[]	[]	[]	3b9	100	8	3bb	3ff	358		
			TRA	[]	[]	[con]	a	/	5	/	/	36		
			TRA	[]	[]	[*+]	b	/	5	/	3c3	3bc		
				[]	[]	[]								
Further Setup			EXT	[β_2]	[]	[β_1]	c	00d	1	358	01c	358		
			CLE	[W_i]	[]	[]	d	119	1	35f	0dc	35a		
			CLE	[j]	[]	[j^B]	e	125	1	35f	0dc	35b		
			sub	[W_i]	[-1^B]	[W_i-1]	f	100	a	35a	3fc	35a		
			div	[$\backslash$]	[2^{-12}]	[$\backslash$]	3c0	100	3	[$\backslash$]	3eb	[$\backslash$]		
			add	[]	[$\backslash$]	[]	1	100	8	359	[$\backslash$]	359		
				[]	[]	[]								
			the	LO	[]	[0]	[]	[]	2	100	e	35f	3ff	358
				[]	[]	[]								
Test & Step A			Remove sign	[]	[]	[]	3	100	9	35d	3ff	35e		
			CLE	[A]	[]	[opsto]	4	119	1	[$\backslash$]	0dc	35c		
			the	[j^B]	[A^B]	[]	5	100	e	35b	35c	3c8		
			div	[]	[]	[]	6	100	3	35a	3eb	[$\backslash$]		
			add	[]	[]	[]	7	100	8	35e	[$\backslash$]	35e		
				[]	[]	[]								
Test & Step B			CLE	[T]	[]	[]	8	125	1	35d	254	35c		
			the	[T]	[1^T]	[]	9	100	c	35c	3fa	3cd		
			CLE	[B]	[]	[B^B]	a	10d	1	35e	0dc	35c		
			the	[j^B]	[B^B]	[]	b	100	e	35b	35c	3cd		
			add	[]	[]	[]	c	100	8	35e	35a	35e		

not really
needed, but nice!

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FLOW ORDER		HEXADECIMAL											
#	#	X	TYPE	A	B	C	#	X	T	A	B	C	
Test Step C				[]	[]	[]							
			CLE	[c]	[]	[c ^B]	3cd	101	1	35d	0dc	35c	
			the	[j ^B]	[c ^B]	[]	e	100	e	35b	35c	361	
			mpy	[W _{i-1}]	[2 ⁻¹²]	[\]	f	100	2	35a	3eb	\	
			add	[]	[\]	[]	3d0	100	8	35c	\	35e	
			TRA	[]	[]	[]	1	/	5	/	/	361	
				[]	[]	[]							
				[]	[]	[]	2	unused					
				[OPSTO	[USE	[]							
				[ADA	[]	[]							
				[]	[]	[]	35f	100	8	35e	3ff	()	
				[]	[]	[]	c	100	e	359	357	()	
				[]	[]	[]	7	100	8	()	3ff	35d	
				[]	[]	[]	8	/	5	/	/	/	
				[]	[]	[]	9	100	8	()	3ff	35d	
				[]	[]	[]							
				[W _i ; W _{i-1}	[]	[]	2						
				[j ^B	[]	[]	b						
				[A ^B ; T ^T ; B ^B ; c ^B	[]	[]	c						
				[]	[]	[]	d			Order			
				[]	[]	[]	e			Order			
				[]	[]	[]	f			Lo			
				[]	[]	[]							
				[]	[]	[]							
				[]	[]	[]							

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FLOW ORDER		X	TYPE				#	HEXADECIMAL				
11	#			A	B	C		X	T	A	B	C
				[]	[]	[]	355	100	8	35e	3ff	(35d)
				[]	[]	[]	6	100	e	357	357	(β)
				[]	[]	[]	7	100	8	(35e)	3ff	35d
				[]	[]	[]	8	/	5	/	/	
				[]	[]	[]	9	100	8	(35e)	3ff	35d
				[]	[]	[]						
				[]	[]	[]						
				[]	[]	[]						
				[]	[]	[]						
				[]	[]	[]	35a					
				[]	[]	[]	b					
				[]	[]	[]	c			N		
				[]	[]	[]	d			N		
				[]	[]	[]	e			Result		
				[]	[]	[]	f			Lo		
				[]	[]	[]						
				[]	[]	[]						
				[]	[]	[]	35a					
				[]	[]	[]	b					
				[]	[]	[]	c					
				[]	[]	[]	d			N		
				[]	[]	[]	e			Result		
				[]	[]	[]	f			Lo		
				[]	[]	[]						
				[]	[]	[]						
				[]	[]	[]						