

Float f comprised of exponent e (int) and significand s (-1.5 to 1.5)

If s starts with 1 or T, $f = 3^e \times s$ (normal)

Else if $e = e_{min}$ (all Ts), f is denormal (see formula for normal)

Else, $f = \text{sNaN}$, qNaN , or $\pm\infty$ (TBD when operations are implemented)

Example with 1 trit for e and 2 trits for s :

Memory	TTT	TT0	TT1	T0T	T00	T01	T1T	T10	T11
Formula	$10^T \times \text{T.T}$	$10^T \times \text{T.0}$	$10^T \times \text{T.1}$	$10^T \times 0.\text{T}$	$10^T \times 0.0$	$10^T \times 0.1$	$10^T \times 1.\text{T}$	$10^T \times 1.0$	$10^T \times 1.1$
Result	.TT	.T0	.T1	.0T	.00	.01	.1T	.10	.11
Decimal	$-4/9$	$-1/3$	$-2/9$	$-1/9$	0	$1/9$	$2/9$	$1/3$	$4/9$
Memory	0TT	0T0	0T1	00T	000	001	01T	010	011
Formula	$10^0 \times \text{T.T}$	$10^0 \times \text{T.0}$	$10^0 \times \text{T.1}$?	?	?	$10^0 \times 1.\text{T}$	$10^0 \times 1.0$	$10^0 \times 1.1$
Result	T.T	T.0	T.1	?	?	?	1.T	1.0	1.1
Decimal	$-4/3$	-1	$-2/3$?	?	?	$2/3$	1	$4/3$
Memory	1TT	1T0	1T1	10T	100	101	11T	110	111
Formula	$10^1 \times \text{T.T}$	$10^1 \times \text{T.0}$	$10^1 \times \text{T.1}$?	?	?	$10^1 \times 1.\text{T}$	$10^1 \times 1.0$	$10^1 \times 1.1$
Result	TT.	T0.	T1.	?	?	?	1T.	10.	11.
Decimal	-4	-3	-2	?	?	?	2	3	4