

## FP8\_E3M4

Hex	s.eee.mmmm	float	Hex	s.eee.mmmm	float	Hex	s.eee.mmmm	float	Hex	s.eee.mmmm	float
00	0.000.0000	0.000000	20	0.010.0000	0.500000	40	0.100.0000	2.000000	60	0.110.0000	8.000000
01	0.000.0001	0.015625	21	0.010.0001	0.531250	41	0.100.0001	2.125000	61	0.110.0001	8.500000
02	0.000.0010	0.031250	22	0.010.0010	0.562500	42	0.100.0010	2.250000	62	0.110.0010	9.000000
03	0.000.0011	0.046875	23	0.010.0011	0.593750	43	0.100.0011	2.375000	63	0.110.0011	9.500000
04	0.000.0100	0.062500	24	0.010.0100	0.625000	44	0.100.0100	2.500000	64	0.110.0100	10.000000
05	0.000.0101	0.078125	25	0.010.0101	0.656250	45	0.100.0101	2.625000	65	0.110.0101	10.500000
06	0.000.0110	0.093750	26	0.010.0110	0.687500	46	0.100.0110	2.750000	66	0.110.0110	11.000000
07	0.000.0111	0.109375	27	0.010.0111	0.718750	47	0.100.0111	2.875000	67	0.110.0111	11.500000
08	0.000.1000	0.125000	28	0.010.1000	0.750000	48	0.100.1000	3.000000	68	0.110.1000	12.000000
09	0.000.1001	0.140625	29	0.010.1001	0.781250	49	0.100.1001	3.125000	69	0.110.1001	12.500000
0A	0.000.1010	0.156250	2A	0.010.1010	0.812500	4A	0.100.1010	3.250000	6A	0.110.1010	13.000000
0B	0.000.1011	0.171875	2B	0.010.1011	0.843750	4B	0.100.1011	3.375000	6B	0.110.1011	13.500000
0C	0.000.1100	0.187500	2C	0.010.1100	0.875000	4C	0.100.1100	3.500000	6C	0.110.1100	14.000000
0D	0.000.1101	0.203125	2D	0.010.1101	0.906250	4D	0.100.1101	3.625000	6D	0.110.1101	14.500000
0E	0.000.1110	0.218750	2E	0.010.1110	0.937500	4E	0.100.1110	3.750000	6E	0.110.1110	15.000000
0F	0.000.1111	0.234375	2F	0.010.1111	0.968750	4F	0.100.1111	3.875000	6F	0.110.1111	15.500000
10	0.001.0000	0.250000	30	0.011.0000	1.000000	50	0.101.0000	4.000000	70	0.111.0000	inf
11	0.001.0001	0.265625	31	0.011.0001	1.062500	51	0.101.0001	4.250000	71	0.111.0001	inf
12	0.001.0010	0.281250	32	0.011.0010	1.125000	52	0.101.0010	4.500000	72	0.111.0010	inf
13	0.001.0011	0.296875	33	0.011.0011	1.187500	53	0.101.0011	4.750000	73	0.111.0011	inf
14	0.001.0100	0.312500	34	0.011.0100	1.250000	54	0.101.0100	5.000000	74	0.111.0100	inf
15	0.001.0101	0.328125	35	0.011.0101	1.312500	55	0.101.0101	5.250000	75	0.111.0101	inf
16	0.001.0110	0.343750	36	0.011.0110	1.375000	56	0.101.0110	5.500000	76	0.111.0110	inf
17	0.001.0111	0.359375	37	0.011.0111	1.437500	57	0.101.0111	5.750000	77	0.111.0111	inf
18	0.001.1000	0.375000	38	0.011.1000	1.500000	58	0.101.1000	6.000000	78	0.111.1000	nan
19	0.001.1001	0.390625	39	0.011.1001	1.562500	59	0.101.1001	6.250000	79	0.111.1001	nan
1A	0.001.1010	0.406250	3A	0.011.1010	1.625000	5A	0.101.1010	6.500000	7A	0.111.1010	nan
1B	0.001.1011	0.421875	3B	0.011.1011	1.687500	5B	0.101.1011	6.750000	7B	0.111.1011	nan
1C	0.001.1100	0.437500	3C	0.011.1100	1.750000	5C	0.101.1100	7.000000	7C	0.111.1100	nan
1D	0.001.1101	0.453125	3D	0.011.1101	1.812500	5D	0.101.1101	7.250000	7D	0.111.1101	nan
1E	0.001.1110	0.468750	3E	0.011.1110	1.875000	5E	0.101.1110	7.500000	7E	0.111.1110	nan
1F	0.001.1111	0.484375	3F	0.011.1111	1.937500	5F	0.101.1111	7.750000	7F	0.111.1111	nan

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Hex	s.eee.mmmm	float	Hex	s.eee.mmmm	float	Hex	s.eee.mmmm	float	Hex	s.eee.mmmm	float
80	1.000.0000	-0.000000	A0	1.010.0000	-0.500000	C0	1.100.0000	-2.000000	E0	1.110.0000	-8.000000
81	1.000.0001	-0.015625	A1	1.010.0001	-0.531250	C1	1.100.0001	-2.125000	E1	1.110.0001	-8.500000
82	1.000.0010	-0.031250	A2	1.010.0010	-0.562500	C2	1.100.0010	-2.250000	E2	1.110.0010	-9.000000
83	1.000.0011	-0.046875	A3	1.010.0011	-0.593750	C3	1.100.0011	-2.375000	E3	1.110.0011	-9.500000
84	1.000.0100	-0.062500	A4	1.010.0100	-0.625000	C4	1.100.0100	-2.500000	E4	1.110.0100	-10.000000
85	1.000.0101	-0.078125	A5	1.010.0101	-0.656250	C5	1.100.0101	-2.625000	E5	1.110.0101	-10.500000
86	1.000.0110	-0.093750	A6	1.010.0110	-0.687500	C6	1.100.0110	-2.750000	E6	1.110.0110	-11.000000
87	1.000.0111	-0.109375	A7	1.010.0111	-0.718750	C7	1.100.0111	-2.875000	E7	1.110.0111	-11.500000
88	1.000.1000	-0.125000	A8	1.010.1000	-0.750000	C8	1.100.1000	-3.000000	E8	1.110.1000	-12.000000
89	1.000.1001	-0.140625	A9	1.010.1001	-0.781250	C9	1.100.1001	-3.125000	E9	1.110.1001	-12.500000
8A	1.000.1010	-0.156250	AA	1.010.1010	-0.812500	CA	1.100.1010	-3.250000	EA	1.110.1010	-13.000000
8B	1.000.1011	-0.171875	AB	1.010.1011	-0.843750	CB	1.100.1011	-3.375000	EB	1.110.1011	-13.500000
8C	1.000.1100	-0.187500	AC	1.010.1100	-0.875000	CC	1.100.1100	-3.500000	EC	1.110.1100	-14.000000
8D	1.000.1101	-0.203125	AD	1.010.1101	-0.906250	CD	1.100.1101	-3.625000	ED	1.110.1101	-14.500000
8E	1.000.1110	-0.218750	AE	1.010.1110	-0.937500	CE	1.100.1110	-3.750000	EE	1.110.1110	-15.000000
8F	1.000.1111	-0.234375	AF	1.010.1111	-0.968750	CF	1.100.1111	-3.875000	EF	1.110.1111	-15.500000
90	1.001.0000	-0.250000	B0	1.011.0000	-1.000000	D0	1.101.0000	-4.000000	F0	1.111.0000	-inf
91	1.001.0001	-0.265625	B1	1.011.0001	-1.062500	D1	1.101.0001	-4.250000	F1	1.111.0001	-inf
92	1.001.0010	-0.281250	B2	1.011.0010	-1.125000	D2	1.101.0010	-4.500000	F2	1.111.0010	-inf
93	1.001.0011	-0.296875	B3	1.011.0011	-1.187500	D3	1.101.0011	-4.750000	F3	1.111.0011	-inf
94	1.001.0100	-0.312500	B4	1.011.0100	-1.250000	D4	1.101.0100	-5.000000	F4	1.111.0100	-inf
95	1.001.0101	-0.328125	B5	1.011.0101	-1.312500	D5	1.101.0101	-5.250000	F5	1.111.0101	-inf
96	1.001.0110	-0.343750	B6	1.011.0110	-1.375000	D6	1.101.0110	-5.500000	F6	1.111.0110	-inf
97	1.001.0111	-0.359375	B7	1.011.0111	-1.437500	D7	1.101.0111	-5.750000	F7	1.111.0111	-inf
98	1.001.1000	-0.375000	B8	1.011.1000	-1.500000	D8	1.101.1000	-6.000000	F8	1.111.1000	nan
99	1.001.1001	-0.390625	B9	1.011.1001	-1.562500	D9	1.101.1001	-6.250000	F9	1.111.1001	nan
9A	1.001.1010	-0.406250	BA	1.011.1010	-1.625000	DA	1.101.1010	-6.500000	FA	1.111.1010	nan
9B	1.001.1011	-0.421875	BB	1.011.1011	-1.687500	DB	1.101.1011	-6.750000	FB	1.111.1011	nan
9C	1.001.1100	-0.437500	BC	1.011.1100	-1.750000	DC	1.101.1100	-7.000000	FC	1.111.1100	nan
9D	1.001.1101	-0.453125	BD	1.011.1101	-1.812500	DD	1.101.1101	-7.250000	FD	1.111.1101	nan
9E	1.001.1110	-0.468750	BE	1.011.1110	-1.875000	DE	1.101.1110	-7.500000	FE	1.111.1110	nan
9F	1.001.1111	-0.484375	BF	1.011.1111	-1.937500	DF	1.101.1111	-7.750000	FF	1.111.1111	nan