

Ottobit Jr. MIDI Data Translation to Real World Values

MIDI CC DATA	Frequency (Hz)	Pitch interval	Tempo (BPM)
0	61.1	skip	6000.00
1	61.1	-12	3000.00
2	61.2	-12	1500.00
3	61.3	-12	1000.00
4	61.6	-12	750.00
5	62.0	-12	600.00
6	62.7	-12	500.00
7	63.7	-12	428.57
8	64.9	-12	375.00
9	66.6	-12	333.33
10	68.6	-12	300.00
11	71.0	-12	272.73
12	74.0	-12	250.00
13	77.5	-11	230.77
14	81.6	-11	214.29
15	86.3	-11	200.00
16	91.7	-11	187.50
17	97.8	-10	176.47
18	104.6	-10	166.67
19	112.3	-10	157.89
20	120.8	-10	150.00
21	130.2	-9	142.86
22	140.5	-9	136.36
23	151.9	-9	130.43
24	164.2	-9	125.00
25	177.7	-8	120.00
26	192.2	-8	115.38
27	207.9	-8	111.11
28	224.9	-8	107.14
29	243.0	-7	103.45
30	262.5	-7	100.00
31	283.3	-7	96.77

32	305.5	-7	93.75
33	329.2	-6	90.91
34	354.3	-6	88.24
35	380.9	-6	85.71
36	409.1	-6	83.33
37	438.9	-5	81.08
38	470.4	-5	78.95
39	503.6	-5	76.92
40	538.5	-5	75.00
41	575.2	-4	73.17
42	613.7	-4	71.43
43	654.2	-4	69.77
44	696.5	-4	68.18
45	740.8	-4	66.67
46	787.1	-3	65.22
47	835.5	-3	63.83
48	886.0	-3	62.50
49	938.7	-3	61.22
50	993.5	-2	60.00
51	1050.6	-2	58.82
52	1109.9	-2	57.69
53	1171.6	-2	56.60
54	1235.6	-1	55.56
55	1302.1	-1	54.55
56	1371.0	-1	53.57
57	1442.5	-1	52.63
58	1516.5	0	51.72
59	1593.0	0	50.85
60	1672.3	0	50.00
61	1754.2	0	49.18
62	1838.8	0	48.39
63	1926.2	0	47.62
64	2016.4	0	46.88

65	2109.5	0	46.15
66	2205.5	0	45.45
67	2304.5	0	44.78
68	2406.5	0	44.12
69	2511.5	0	43.48
70	2619.6	0	42.86
71	2730.8	0	42.25
72	2845.2	0	41.67
73	2962.8	0	41.10
74	3083.7	1	40.54
75	3207.9	1	40.00
76	3335.4	1	39.47
77	3466.4	1	38.96
78	3600.8	2	38.46
79	3738.7	2	37.97
80	3880.1	2	37.50
81	4025.1	2	37.04
82	4173.8	3	36.59
83	4326.1	3	36.14
84	4482.1	3	35.71
85	4641.9	3	35.29
86	4805.5	3	34.88
87	4972.9	4	34.48
88	5144.2	4	34.09
89	5319.5	4	33.71
90	5498.7	4	33.33
91	5682.0	5	32.97
92	5869.3	5	32.61
93	6060.8	5	32.26
94	6256.4	5	31.91
95	6456.3	6	31.58
96	6660.4	6	31.25
97	6868.7	6	30.93

98	7081.5	6	30.61
99	7298.6	7	30.30
100	7520.1	7	30.00
101	7746.1	7	29.70
102	7976.7	7	29.41
103	8211.8	8	29.13
104	8451.5	8	28.85
105	8695.8	8	28.57
106	8944.9	8	28.30
107	9198.7	9	28.04
108	9457.3	9	27.78
109	9720.7	9	27.52
110	9989.0	9	27.27
111	10262.3	10	27.03
112	10540.5	10	26.79
113	10823.7	10	26.55
114	11111.9	10	26.32
115	11405.3	11	26.09
116	11703.8	11	25.86
117	12007.5	11	25.64
118	12316.5	11	25.42
119	12630.7	12	25.21
120	12950.3	12	25.00
121	13275.2	12	24.79
122	13605.5	12	24.59
123	13941.3	12	24.39
124	14282.6	12	24.19
125	14629.5	12	24.00
126	14981.9	12	23.81
127	24000.0	mute	23.62