16.06.2019 DFT Index.xlsx

Note: Even if these sounds/frequencies are not tone of the C-sharp scale anymore I decided to keep the name A,B,C, D... just as a convenient way to designate them

Note2: I keep the number of 14 sounds: this was a bit the limit I can use for the wav sounds converted to be still manageable for the robot (the .s file already take roughly 50% of the storage of the robot)

Key idea HF attempts 1: with HF seems better, but still annoying overlap

Relying on Fdft formula from Nemec et al(2017) p4

Plus: measurements made till now (always same values coming back)

While taking into account top limit aroun 3400

New attemps

Après HF2 Nettement mieux!!! mais encore répétion avec trois premières notes -> je veux les enlever et en ajouter 3 autres vers le hauts en suivant DFT Index

Sample length 144

Leds can be activated or not

(except last)

Frequ (Hz)	Tone	fct	leds	Seg	seg start	seg end	length
1664	F	f0()	4 & b	0	0	1439	1440
1792	G	g0()	5 & b	1	1440	2879	п
2176	Α	a0()	6 & b	2	2880	4319	п
2304**	В	b0()	7 & b	3	4320	5759	
2432	С	c()	1	4	5760	7199	"
2560	D	d()	2	5	7200	8639	п
2688	E	e()	3	6	8640	10079	
2816	F	f()	4	7	10080	11519	
2944	G	g()	5	8	11520	12959	"
3072	Α	a()	6	9	12960	14399	"
3200	В	b()	7	10	14400	15839	11
3328	С	c1()	1 & f	11	15840	17279	"
3456	D	d1()	2 & f	12	17280	18719	п
3584*	E	e1()	3 & f	13	18720	20160	

·	·	·		·	,	,	, <sub>1</sub>	·	·			
1675	5027			8378		.(10054)	11730				15082	
1804	5414				9023			12632				.(16242)
2191		6574				10957					15339	
		6960			(9281)		11601		13921			16242
			7347					12246			15855	
2578	5156		7734			10312		12890				
				8121		10828			13535			
2835				8507						14179		
2964				8894						14824		
3093					9281						15468	
3222					9667							16113
3351	.(3322)				9925	10054						
3480	.(3351)											
3609	.(3351)											

\*Very low volume only for close communication

..: sometimes problematic with HP 1.3

to see

<sup>\*\*</sup>