

input data	value	variable	
bpm	73	a	see xml file
beats per second	1,216666667	b	"= a/60
one beat duration in seconds	0,821917808	c	"=1/b
two beats (ie.half) duration in seconds	1,643835616	d	"=2*c
musicxml "divisions" value	480	e	see xml file
musicxml note duration for each note in the 19/16 tuplet	51	f	see xml file

HBD sample first measure

These calculations show a difference between the expected and current value for the notes duration(in ms), represented in the 19/16 tuplet

			OBSERVED	EXPECTED		
32nd note duration in the 19/16 tuplet in seconds		i	$(51/480)*c =$	0,0873288	0,086518	"=d/19
idem in Millisec.	"=i/1000	k		87,328767	86,51766	
error %	"=(100*/k_expected) * (k_Observed-k_expected)		0,9375			
error in millisecond			0,8111			

error = 1 %
or 1 millisecond

0,9375
0,8111031