

## Sonic Visualiser - Bug #1796

### Suspicious LogRange behaviour for very small min and max

2017-02-23 09:30 AM - Chris Cannam

<b>Status:</b>	Closed	<b>Start date:</b>	2017-02-23
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Chris Cannam	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			

#### Description

How should `LogRange::mapRange` behave when either min or max is non-zero but smaller than the provided threshold?

As it stands, we will get a "wider" range for `mapRange(1e-20, 1)` than we will for `(0, 1)`, which doesn't seem to make a lot of sense. We should add some tests for these and check what it really should do for proper behaviour.

#### History

##### #1 - 2017-02-28 03:27 PM - Chris Cannam

I've persuaded myself that the current behaviour is OK, thinking of the threshold value as a sort of substitute for the singularity at 0 rather than an actual threshold. I've added some unit tests that document and ratify this situation.

##### #2 - 2017-02-28 03:30 PM - Chris Cannam

- Status changed from *New* to *Resolved*

##### #3 - 2017-03-03 12:02 PM - Chris Cannam

- Status changed from *Resolved* to *Closed*