TimbreTool 0.1.1 Development Report

# To-Do List

|  |  |  |
| --- | --- | --- |
| Date | Task | Done? |
| 3/11/2020 | Find variable stored at 0x18 – why is it not allocated? | n |

# Runtime Errors

## Menu Section 3: User Chooses New File

### Error List

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Error ID | File | Code | Error | File where Error Appears | Line where Error Appears | Explanation |
| 3.1 | Clip.cpp | audioBuffer->setSize(\*numChannels, \*numSamples); | Thread 4: EXC\_BAD\_ACCESS (code=1, address=0x4) | juce\_AuidosampleBuffer.h | **if** (newNumSamples != size || newNumChannels != numChannels) | Invalid memory address. |

### Valgrind Tests

|  |  |  |
| --- | --- | --- |
| Error ID | Screenshot | Explanation |
| 3.1 | Text  Description automatically generated | Address 0x18 does not correspond to any heap blocks. It has not been allocated memory. |

# Runtime Error Solutions

## Menu Section 3: User Chooses New File

### Solutions List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Error ID | Old Code | New Code | New Code Location | Explanation |
| 3.1 |  | audioBuffer(**new** juce::AudioBuffer<**float**>()) | Initialisation list for Clip::Clip | Memory for AudioBuffer was not allocated |

### Valgrind Tests

|  |  |  |
| --- | --- | --- |
| ID | Screenshot | Explanation |
| 3.1 | Text  Description automatically generated | 0x18 is still not correctly allocated. 0x18 is not related to the AudioBuffer object. |