
Microphone array phase-aligned capture example

This example demonstrates how to use the microphone array library to capture samples from the microphone array and present them simultaneously with equal phase delay on each sample. The example is designed to show up to 8 channel array processing.

Required tools and libraries

The code in this application note is known to work on version 14.2.4 of the xTIMEcomposer tools suite, it may work on other versions.

The application does not have any dependencies (i.e. it does not rely on any libraries).

Required hardware

This is an example only with no hardware requirements.

Prerequisites

- This document assumes familiarity with the XMOS xCORE architecture, the XMOS tool chain and the xC language. Documentation related to these aspects which are not specific to this application note are linked to in the references appendix.
- The `lib_mic_array` user guide should be thoroughly read and understood.
- For a description of XMOS related terms found in this document please see the XMOS Glossary¹.

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¹<http://www.xmos.com/published/glossary>