



A2B Release Notes

Document Status:	Approved
Approved By:	ASH

Revision List

Table 1: Revision List

Document Revision	Date	Description	
V20.1	08-Nov-2016	Updated for Rel13.0.0	
V20.2	10-Nov-2016	Incorporated Review comments	
V20.3	10-Nov-2016	Incorporated review comments from SQAL	
V21.0	10-Nov-2016	Approved and baselined for Rel13.0.0	
V21.1	30-Nov-2016	Draft version for Rel 13.1.0 – Updated sections 3, 4.1 and 6.2	
V22.0	09-Dec-2016	Approved and baselined for Rel13.1.0	
V22.1	17-Jan-2017	Updated features, release contents, for Rel 14.0	
V22.2	23-Jan-2017	Addressed review comments. Added workarounds, known problems, notes sections	
V23.0	23-Jan-2017	Baselined for Rel14.0.0Beta	
V23.1	21-Feb-2017	Updated Section 4.1, 3, and 5.1 for Rel15.0.0.	
V23.2	23-Feb-2017	Absorbing review comments	
V23.3	28-Feb-2017	Addressing Quality Review comments	
V24.0	03-Mar-2017	Baselined for Rel15.0.0	
V24.1	09-May-2017	Updated for Rel16.0.0	
V24.2	11-May-2017	Updated limitation section	
V24.3	12-May-2017	Absorbing review comments	
V25.0	12-May-2017	Baselined for Rel16.0.0	
V25.1	28-Sep-2017	Updated for Rel17.0.0	
V25.2	03-Oct-2017	Addressing review comments	
V25.3	05-Oct-2017	Absorbing QA review comments	
V26.0	05-Oct-2017	Baselined for Rel17.0.0	
V26.1	15-Nov-2017	Updated for Rel18.0.0 Beta	
V26.2	01-Dec-2017	Updated the details of BF716 inclusion	
V26.3	05-Dec-2017	Absorbing review comments	
V27.0	06-Dec-2017	Baselined for Rel18.0.0 Beta	
V27.1	07-May-2018	Updates for Rel19.0.0	
V27.2	11-May-2018	Review comments incorporated	
V27.3	24-May-2018	QA review comments incorporated (Section 2, 3)	
V28.0	06-June-2018	Baselined for Rel19.0.0	
V28.1	19-0ct-2018	Updates for Rel19.1.0	

V28.2	25-0ct-2018	Review comments incorporated	
V29.0	31-0ct-2018	Baselined for Rel19.1.0	
V29.1	4-Dec-2018	Updates for Rel19.2.0	
V29.2	11-Dec-2018	Addressed review comments	
V30.0	12-Dec-18	Approved and Baselined for Rel19.2.0	
V30.1	30-Apr-19	Updates for Rel19.7.0 Alpha	
V30.2	02-May-19	Addressed review comments	
V31.0	03-May-19	Baselined version for Rel19.7.0 Alpha (test version)	
V31.1	09-Jul-19	Updates for Rel19.8.0 Alpha	
V31.2	16-Jul-19	Incorporating review comments	
V32.0	18-Jul-19	Approved and Baselined for 19.8.0 Alpha	
V32.1	19-Jul-19	Updates for Rel19.3.0	
V32.2	30-Aug-19	Review comments addressed	
V33.0	30-Aug-19	Approved and Baselined for 19.3.0	
V33.1	22-0ct-19	Updates for Rel19.8.2 Alpha	
V33.2	24-0ct-19	Review comments addressed	
V34.0	25-Oct-2019	Baselined for Rel19.8.2 Alpha	
V34.1	15-May-2020	Updates for Rel19.8.3 Alpha	
V34.2	20-May-2020	Addressed review comments.	
V35.0	21-May-2020	Approved and Baselined for 19.8.3	
V35.1	27-Jan-2021	Updated for release 19.9.0	
V35.2	03-Feb-2021	Addressed review comments	
V36.0	08-Feb-2021	Approved and Baselined for 19.9.0	
V36.1	30-Nov-2021	Updated for release 19.10.0	
V36.2	01-Dec-2021	Addressed Review comments	
V37.0	01-Dec-2021	Approved and Baselined for 19.10.0	
V37.1	09-Sep-2024	Updated for release 19.11.0	
V37.2	12-Sep-2024	Addressed Review comments	
V37.3	24-Sep-2024	QA review comments Incorporated	
V38.0	30-Sep-2024	Approved and Baselined for 19.11.0	
V38.1	08-Sep-2025	Updated for release 19.11.1	
V38.2	15-Sep-2025	Addressed Review comments	
V39.0	15-Sep-2025	Approved and Baselined for 19.11.1	
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Note: This software is a production upgrade release for bugfix following focused software validation process. Hence Analog Devices, Inc. make no claims with respect to software capability levels to any standard process framework for the software.

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1 Introduction

The Automotive Audio Bus (A2B) is a proprietary bidirectional audio bus from Analog Devices that provides physical connectivity to devices like microphones, speakers and processing ECUs in a car. The A2B topology is cost effective because of its twisted pair connectivity and its ability to provide single point connection to the head unit or the ECU. It is also capable of transferring multichannel audio across devices like microphones and speakers.

1.1 Purpose

Software package contains A2B Stack and plugins to SigmaStudio. A2B Stack is a highly portable and flexible framework for developing and deploying A2B networks in automotive environments. Plugins enable graphical programming of A2B network using SigmaStudio.

1.2 Scope

A2B Stack and sample applications are provided in source form. SigmaStudio plugins are Dynamic Link Libraries (DLLs).

1.3 Organization of the document

Section 1 to 8 details about the content of the releases, the changes or the features which got added and other known issues/ problems in the release.

Section 9 talks about setting up the hardware and perform a quick demo with the example application.

Section 10 is intended for the integrator where the software deliverable shall be integrated and ported to custom platform.

2 Release Information

This version of the product supports all variants of the AD240x, AD241x, AD242x and AD243x transceiver family. The product has been tested on

- AD2428 transceiver using EVAL-AD2428WD1BZ Rev 1.1, EVAL-AD2428WC1BZ Rev2.1, EVAL-AD2428WB1BZ Rev2.1 boards and example schematics are provided.
- AD2433 transceiver using EVAL-AD2433WA1BZ Rev A, EVAL-AD2433WB1BZ Rev A boards and example schematics are provided.
- AD2435 transceiver using EVAL-AD2435WA3LZ Rev B, EVAL-AD2435WJ3LZ Rev B boards and example schematics are provided.
- Example target applications are provided for BF-527, ADSP-SC58x, ADSP-SC57x, ADSP-SC589-mini and ADSP-SC594 for AD242x and AD243x transceivers.

2.1 Release Contents

Table 2: Release Contents

SI. No	Release Item	Description	Version Details
	A2B Stack Target	Production-Upgrade	V19.11.1
1	Software (source code)	Supported OS Platforms	Designed for cross-platform/cross-OS usage through a well-defined platform abstraction layer (PAL) Examples on BareMetal (no-OS) platform
	SigmaStudio Plugin for	Production-Upgrade	V19.11.1
2	A2B (Library file) A2B.dll A2BStack.dll	Supported SigmaStudio version	SigmaStudio Version 4. 7 Note: Previous release DLLs are not compatible with SS4.7

2.2 Hardware and Software Requirements

Table 3: Hardware and Software Requirements

Pre-Requisite	Details	
Hardware Platform	A2B Evaluation Boards	
	EVAL-AD2428WD1BZ Rev 1.1 (Master/LPS)	
	EVAL-AD2425WDZ Rev1.3 (Master),	
	EVAL-AD2425WFZ Rev1.1 (Slave),	
	EVAL-AD2425WBZ Rev1.4 (Slave),	
	EVAL-AD2425WCZ Rev1.4 (Slave),	
	EVAL-AD2425WGZ Rev1.1 (Slave),	
	EVAL-AD2428WB1BZ Rev2.1 (Slave),	
	EVAL-AD2428WC1BZ Rev2.1 (Slave),	
	ADSP-SC584 EZ-Board BOM Rev 2.4,	
	EV-SC594-SOM Rev B,	
	ADSP-SC573 EZ-Board BOM Rev 1.9	
	ADSP-SC589 MINI Board BOM Rev 1.5	
	ADZS-AD2435MINI (Slave),	
	EVAL-AD2435WA3LZ Rev B (Master/Slave),	
	EVAL-AD2435WJ3LZ Rev B (Slave),	
	EVAL-AD2433WA1BZ Rev B (Master/Slave),	
	EVAL-AD2433WB1BZ Rev A (Slave),	
	EVAL-AD2410WFZ Rev1.0 (Smart Slave)	

Transceivers & Silicon	AD2401, AD2402, AD2403, AD2410: R1.0 R2.0, R2.1
	AD2421, AD2422, AD2425: R0.0, R0.1, R0.2
	AD2420, AD2429: R0.0, R0.1, R0.2
	AD2426, AD2427, AD2428: R0.0, R0.1, R0.2, R0.3
	AD2433: R1.0, R1.2, R2.0
	AD2431, AD2432, AD2435: R1.1, R1.3, R2.1
Compiler details with	CrossCore Embedded Studio v2.11.0 or later
version	
PC	Window10 22H2

3 Supported Features

3.1 Rel 19.11.1

Table 4: Supported Features

Release Number	Release Date	Features Supported
Rel 19.11.1	16-Sept-25	 No new features have been added Bug Fixes: Discovery fails when using a DAT file in optimized discovery mode Faults are inaccurately reported during the fault localization process Bus Self-Discovery failure I2STEST register is not exported to configuration files for AD243x GPIO0 configuration is not exported to configuration files for AD243x

3.2 Features from earlier versions

Table 5: Features for Previous Release

SI. No	Release No./ Build Version	Release Date	Changes/Enhancements from previous release
1	18.0.0	06-12-2017	Support for AD2428, AD2427 and AD2426 A2B transceiver variants added.
2	19.0.0	07-06-2018	Supports Aardvark I2C Host Adapter for network configuration (Alternative to USBi I2C adapter) Scripting support to automate A2B system verification Compression option to encode Bus Configuration File (BCF.c) Supports BF716 as A2B processor Added A2B Mailbox Communication software module and an example application Example schematic and application for EVAL-AD2428WD1BZ Rev 1.0

			Added a fix for USBi download issue. Refer section 7.1 of [3] for details
			Supports BF719 as A2B processor
			Added workflow & example application for multi-master use case
3	19.1.0	31-10-2018	Supports optimized auto configuration of bus from the EEPROM connected to ECU
			Added example application and platform abstraction layer for QNX
			Note: QNX application & drivers are available as separate package. Please contact ADI representative for more details
4	19.2.0	12-Dec-18	Supports AD2429 & AD2420 A2B Transceivers
5	19.7.0	03-May-19	Supports discovery & configuration of AD2435 Transceivers
			Supports configuration of AD2443x (Content Protection Enabled) Transceiver. Added APIs to manage Content Protection events.
6	19.8.0	18-Jul-19	Added post discovery APIs for SPI data transfer over A2B (AD243x only)
			Stream configuration in SigmaStudio is extended to SPI Data tunnels
			Example application to configure a remote tuner over SPI
			Added Stream information in Bus Configuration File (BCF) export
7	Rel19.8.2	23-0ct-19	Supports AD2443x configuration (Content Protection enabled) via SPI
			Added an optional discovery method to mitigate cross talk (applicable to AD2421, AD2422 and AD2425 only)
			Supported multiple power configurations for AD2435 Rev 1.0 & Rev 1.1 Silicon
8	Rel19.8.3	22-May-20	Supported Line fault diagnostics
			Supported configuration of Bus Self Discovered nodes via SigmaStudio)

	<u> </u>	<u> </u>	
			BERT calculation through SPI interface for AD243x
			Audio host configuration for bus self-discovery for AD243x
			Support multi-master I2C/SPI command list export for AD243x
			Support up to 16 sub node discovery for AD243x (up to 80m overall length)
			Full Duplex/Bulk SPI transactions beyond 256 bytes for AD243x
			GPIO based SPI busy check handling for AD243x
			Trace and sequence chart support for SPI for AD243x
			Export/Import functionality (NCF & BCF in XML format) for AD243x
			Post discovery Voltage Monitor (VMTR) and PWM APIs for AD243x
9	Rel19.9.0	05-Feb-21	Support for up to 32 streams' info in exported BCF XML/.c and NCF
			Full screen Maximize option for Export window
			Retry mechanism for Custom Node Authentication
			Export and Import of BCFs used to create Super BCF
			Interrupt mode support for A2B Stack example
			Node level discovery status callback from A2B Stack
			Partial discovery of dropped nodes (post discovery)
			Bandwidth and power calculation updates
			Saving EEPROM dump in .dat file
			Schematic auto-draw when importing BCF/NCF
			Schematic Validation and Report generation
			Communication Channel upgrades (En/Dis Framing, interrupt mode support etc.)

			Line Diagnostics software flow update for Local Power Slave (LPS) node (including partial bus operation during line faults)
			Increase resilience to crosstalk in AD2410/AD2425 family by discovery flow updates.
			Notify error to application if master running is not detected
			Other bug fixes & minor enhancements
			Stream Information export to EEProm and .dat file
	Rel19.10.0	17-Nov-21	SPI Peripheral programming during discovery using EEProm and .dat file
			Disabling SPI features for AD2432/AD2431
			Target application for ADSP-SC573
10			Target application for ADSP-SC589 MINI(SAM)
			Target application for ADSP-SC594 as Smart Slave
			Connection warning pop-ups for Mixed node network
			Compatibility of 19.4.2 exports in 19.10.0
			Option to save the schematics temporary to avoid
			overwriting of in-work schematics by auto-save.
			Command List merge utility for branching support.
			Data Tunnel overlapping
	Rel19.11.0	30-Sept-24	Bug Fixes:
11			I2C Error Notification
			Separate stack error for Transceiver Authentication failure
			Response Cycle Formula B correction for AD2426/27/28/31/32/33/35

4 Package Details

The release package contains a folder structure as shown below.

```
ADI_A2B_Software_Rel19.11.1
\---GUI
   |---x86_x64
       |---A2B.dll
       |---A2BStack.dll
   |---plantuml.jar
   |---postProcessUML.exe
\---Target
   |---a2bstack
       |---a2bstack
       |---a2bplugin-master
       |---a2bplugin-slave
       |---a2bstack-protobuf
   |---examples
       |---demo
            |--- a2b-bf
            |--- a2b-adsp-sc58x
            |--- a2b-adsp-sc59x
            |--- a2b-adsp-sc57x
            |--- a2b-adsp-sc589_mini
            |--- a2b-uart-utility
            |--- app-plugin
       |--- advancedapp
            |--- remoteTuner
            |--- mboxcommch
            |--- multimaster
   |---a2b-commandlist
   |---a2bcommchannel
```

```
|---tools
\---Schematics
| |---PC
 |---SC58x
 |---SC59x
\----Docs
| |---AE_09_A2B_Stack_UserGuide.pdf
| |---AE_09_A2B_SigmaStudio_UserGuide.pdf
| |---AE_09_A2B_QuickStartGuide.pdf
 |---AE_09_A2B_Stack_API_Reference.chm
| |---AE_09_A2B_Scripting_Guide.pdf
 |----CommCh
      |----AE_09_A2B_CommChannel_IntegrationGuide.pdf
      |----AE_09_A2B_CommCh_API_Reference.chm
\--- 2025-09-15-adi-a2b-software Click Thru SLA.pdf
\--- AE_09_A2B_ReleaseNotes.pdf
\--- GettingStarted.rtf
```

The section below explains the different folders and their purpose in the current release.

Table 6: Package Details

Folder Name	Purpose
GUI	This folder contains the SigmaStudio A2B DLL and A2B Stack built as a DLL for 32 and 64-bit windows.
Target	This folder contains the A2B software stack target related files. Refer to Table 6 for more detailed explanation for each of the folders under Target directory.
Schematics	This folder contains the example A2B and SigmaDSP schematics for BF, SC58x and SC59x platforms.
Docs	This folder contains the documents such as quick start guide, user guide etc. which helps in integration of A2B Stack to the required platform.

The table below explains the different folders under Target directory and their purpose.

Table 7: Target Directory

Folder Name	Purpose
a2bstack	The generic or target agnostic portions of the A2B Software Stack.

a2bplugin-master	The sources for the A2B Software Stack master node plugin. The A2B network discovery algorithms and line fault diagnostics are encapsulated within these sources.
a2bplugin-slave	The sources for a simple A2B Software Stack slave node plugin. These sources are a trivial example of a slave plugin for use as a launching pad for developing custom plugins.
a2bstack-protobuf	The Google Protobuf implementation called Nanopb. This also include the BCF to BDD parsing routines such as master/slave node configuration, master/slave pin muxing etc.
demo/a2b-bf	This folder contains the source files for PAL, application and CCES example A2B demo project for BlackFin (ADSP-BF527)
demo/a2b-adsp-sc58x	This folder contains the source files for PAL, application and CCES example A2B demo project for ADSP-SC58x.
demo/a2b-adsp-sc59x	This folder contains the source files for PAL, application and CCES example A2B demo project for ADSP-SC59x.
demo/a2b-adsp-sc589_mini	This folder contains the source files for PAL, application and CCES example A2B demo project for ADSP-SC589_mini.
demo/a2b-adsp-sc57x	This folder contains the source files for PAL, application and CCES example A2B demo project for ADSP-SC57x.
demo /a2b-uart-utility	This folder contains the source files for UART commands.
demo/a2bapp	This folder contains the source files for A2B Stack service APIs.
advancedapp/remoteTuner	This folder contains the source files for RTM Slave Plugin, PAL, application and CCES example A2B project on BF527 demonstrating Remote Tuner as slave plugin using SPI APIs
advancedapp/multimaster	This folder contains the source files for PAL, application and CCES example A2B project on ADSP-SC584 & ADSP-SC594 demonstrating multi master use case.
advancedapp/mboxcommch	This folder contains the source files for PAL, application and CCES example A2B projects on ADSP-SC584, ADSP-SC594 and ADSP-21489, demonstrating communication channel application using A2B mailbox.
a2b-commandlist	This folder contains an example application to use the exported command list from SigmaStudio (Both SPI or I2C)
a2bcommchannel	This folder contains source files for communication channel module (using A2B Mailbox)

5 Package Installation

5.1 Windows

Double click the A2B Software package (executable) to install. The package is installed into "C:\Analog Devices\ADI_A2B_Software-RelX.Y.Z".

6 Performance Figures

The overall memory requirement for A2B Stack based application depends on the number of A2B nodes, requirements of A2B programmable peripherals and stack feature configuration (as complier switches). Refer to 'AE_09_A2B_Stack_UserGuide.pdf' (available at [2]) for scaling the memory usage. Refer to the file 'a2bstack-frmwrk-bf.map.xml' [9] which captures the typical memory requirement for 3 node sample demo application running on ADSP-BF527 processor.

Note: 'a2bstack-frmwrk-bf.map.xml' gets generated once the application is built (using CCES). Ensure "Generate symbol map (-map)" option is selected in Project properties → C/C++ Build → Settings → Tool Settings → CrossCore Blackfin Linker → General options.

7 Known Issues and Workarounds

7.1 System Level Limitations

The following are some of the important System level limitations known at the time of this release.

- > AD243x specific limitations
 - USBi Rev 1.4(or lower) cannot be used for AD243x SPI interface. Use aardvark or USBi Rev1.5
 - I2S TDM Crossbar programming supported only from 'Register View'.
 - Power calculation feature in SigmaStudio is yet to be updated for AD243x.
 - BERT PRBS mode results in errors for AD243x when Data tunnels are enabled.
 - Partial discovery is applicable only for the first re-attempt on AD243x CFG4 (high power) evaluation boards.
 - Partial discovery is applicable only for the first re-attempt on AD243x CFG4 (standard power) evaluation boards with SPI interface.
 - Partial discovery is not applicable at node 0 in Host PC mode.
- Scripting: New AD243x A2B_GET_NETWORK_LINEFAULT_CODE_243x() API is limited only to old fault codes.
- Concurrent download (link-compile-download) during partial discovery attempt is refrained to user.
- > 'Allow Real-Time A/B Testing' feature of SigmaStudio is not supported for A2B schematics.
- ➤ ADSP-SC594 smart slave application has noise while switching audio between master and sub node0.

7.2 Known Problems

There are no known problems at the time of this release.

7.3 Work Arounds

Not applicable

7.4 Notes

- ➤ Refer to Silicon Anomaly list for details on Bus Line Diagnostics for High Power use cases of AD243x.
- Line fault BP short to GND may not be detected after discovery for AD242x master.
- Line fault BN short to GND may not be detected after discovery, unless bit errors indicate that there is an issue, e.g. because off a noisy GND or other electromagnetic interferences.

- Line fault 'BP short to GND' and 'BN short to Vbat' are not consistently identified in all the discovery modes except Simple discovery flow.
- > The location of Line fault 'BP and BN together short to GND' is not detected correctly.
- ➤ Copy paste won't preserve the order of peripheral programming. A warning message is added in the GUI.
- ➤ Enabling Print console messages in target application will make audio at target choppy as print will be blocking. Therefore, it should be used only for Debug purpose. In actual use case Print console should be disabled.
- In Advanced discovery, noise may be observed on Audio Sink node for upstream Audio stream during the discovery of Audio Source node. This is due to Data decoding errors as Sink node starts sampling invalid Audio data as soon as Source node discovery is initiated. Refer to the anomaly sheet for more details.
- Clipping might be seen at the end of rendering very big sequence charts. In such cases, the generated sequence.txt file can be used to generate the sequence change using platuml text editor.

8 Technical Support

8.1 Contact information

If you have a technical problem and you can't find a solution, you can contact for Technical Support at:

mailto:a2bsoftwaresupport@analog.com

8.2 Type of support

All technical queries, bug reporting, issues and feedback addressed to the above-mentioned contact shall be processed and responded accordingly based on the nature of the support required.

9 APPENDIX A: Quick Setup Guide

The document 'AE_09_A2B_QuickStartGuide.pdf' (available at [1]) provides build instructions to run the sample application on ADI platforms.

10 APPENDIX B: Integration Guide

- Integrating A2B Stack and porting the stack to a custom platform is described in the document 'AE_09_A2B_Stack_UserGuide.pdf' (available at [2]). The document provides code examples on PAL initialization, Interrupt call-back function, Power and Line Fault diagnostic call-back function and others.
- To understand the A2B stack at the function level, refer 'AE_09_A2B_Stack_API_Reference.chm' (available at [5])
- To customize A2B schematics and diagnose the A2B network using SigmaStudio, refer to document 'AE_09_A2B_SigmaStudio_UserGuide.pdf' (available at [3])
- To use SigmaStudio's test automation(scripting) interface for A2B, refer to document 'AE_09_A2B_Scripting_Guide.pdf' (available at [3])
- Refer to 'AE_09_A2B_CommChannel_IntegrationGuide.pdf' (available at [8]) document for A2B communication channel usage for inter-processor communication over A2B

Terminology

Table 8: Terminology

Term	Description
A2B	Automotive Audio Bus
BERT	Bit error rate test
CCES	CrossCore Embedded Studio
GUI	Graphical User Interface
MISRA	Motor Industry Software Reliability Association
VDSP	Visual DSP++
DLL	Dynamic Link Library
USB	Universal Serial Bus
I2C	Inter-IC
I2S	Inter –IC-Sound
BF	Blackfin
SH	SHARC
PAL	Platform Abstraction Layer
GND	Ground
BCF	Bus Configuration File
TDM	Time Division Multiplexing

References

Table 9: References

Reference No.	Description
[1]	./ADI_A2B_Software-RelX.Y.Z/Docs/AE_09_A2B_QuickStartGuide.pdf
[2]	./ADI_A2B_Software-RelX.Y.Z/Docs/AE_09_A2B_Stack_UserGuide.pdf
[3]	./ADI_A2B_Software-RelX.Y.Z/Docs/AE_09_A2B_SigmaStudio_UserGuide.pdf
[4]	./ADI_A2B_Software-RelX.Y.Z/Docs/AE_09_A2B_Stack_Linux_UserGuide.pdf
[5]	./ADI_A2B_Software-RelX.Y.Z/Docs/AE_09_A2B_Stack_API_Reference.chm
[6]	./ADI_A2B_Software- RelX.Y.Z/Docs/ContentProtection/AE_09_A2B_CP_QuickStartGuide.pdf
[7]	./ADI_A2B_Software-RelX.Y.Z/Docs/scripting/AE_09_A2B_Scripting_Guide.pdf
[8]	./ADI_A2B_Software- RelX.Y.Z/Docs/CommCh/AE_09_A2B_CommChannel_IntegrationGuide.pdf
[9]	./ADI_A2B_Software-RelX.Y.Z/Software/Target/examples/demo/a2b-bf/Debug