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Applied Computer Music Technologies Ltd

Plug-In Validation

ACM520X1 Version 3.1.4

17-Apr-2023  
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(C) Applied Computer Music Technologies Ltd



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Plug-In Validation Test: ACM520X1 - VST  
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Started validating: /home/acmt/vst/ACM520X1.so  
Random seed: 0x236a727  
Validation started  
Strictness level: 5  
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Starting tests in: pluginval / Scan for plugins located in: /home/acmt/vst/ACM520X1.so...  
Num plugins found: 1

Testing plugin: VST-ACM520X1-2149e20c-41433532  
Applied Computer Music Technologies Ltd: ACM520X1 v3.1.4.0  
Completed tests in pluginval / Scan for plugins located in: /home/acmt/vst/ACM520X1.so  
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Starting tests in: pluginval / Open plugin (cold)...  
Completed tests in pluginval / Open plugin (cold)  
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Starting tests in: pluginval / Open plugin (warm)...  
Running tests 1 times  
Completed tests in pluginval / Open plugin (warm)  
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Starting tests in: pluginval / Plugin info...

Plugin name: Bus Compressor  
Alternative names: Bus Compressor  
SupportsDoublePrecision: no  
Reported latency: 0  
Reported taillength: 0  
Completed tests in pluginval / Plugin info  
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Starting tests in: pluginval / Plugin programs...  
Num programs: 8  
All program names checked

Changing program  
Completed tests in pluginval / Plugin programs  
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Starting tests in: pluginval / Editor...  
Completed tests in pluginval / Editor  
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Starting tests in: pluginval / Open editor whilst processing...  
Completed tests in pluginval / Open editor whilst processing  
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Starting tests in: pluginval / Audio processing...  
Testing with sample rate [44100] and block size [64]  
Testing with sample rate [44100] and block size [128]  
Testing with sample rate [44100] and block size [256]  
Testing with sample rate [44100] and block size [512]  
Testing with sample rate [44100] and block size [1024]  
Testing with sample rate [48000] and block size [64]  
Testing with sample rate [48000] and block size [128]  
Testing with sample rate [48000] and block size [256]  
Testing with sample rate [48000] and block size [512]  
Testing with sample rate [48000] and block size [1024]  
Testing with sample rate [96000] and block size [64]  
Testing with sample rate [96000] and block size [128]  
Testing with sample rate [96000] and block size [256]  
Testing with sample rate [96000] and block size [512]  
Testing with sample rate [96000] and block size [1024]  
Completed tests in pluginval / Audio processing

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Starting tests in: pluginval / Plugin state...  
Completed tests in pluginval / Plugin state  
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Starting tests in: pluginval / Automation...  
Testing with sample rate [44100] and block size [64] and sub-block size [32]  
Testing with sample rate [44100] and block size [128] and sub-block size [32]  
Testing with sample rate [44100] and block size [256] and sub-block size [32]  
Testing with sample rate [44100] and block size [512] and sub-block size [32]  
Testing with sample rate [44100] and block size [1024] and sub-block size [32]  
Testing with sample rate [48000] and block size [64] and sub-block size [32]  
Testing with sample rate [48000] and block size [128] and sub-block size [32]  
Testing with sample rate [48000] and block size [256] and sub-block size [32]  
Testing with sample rate [48000] and block size [512] and sub-block size [32]  
Testing with sample rate [48000] and block size [1024] and sub-block size [32]  
Testing with sample rate [96000] and block size [64] and sub-block size [32]  
Testing with sample rate [96000] and block size [128] and sub-block size [32]  
Testing with sample rate [96000] and block size [256] and sub-block size [32]  
Testing with sample rate [96000] and block size [512] and sub-block size [32]  
Testing with sample rate [96000] and block size [1024] and sub-block size [32]  
Completed tests in pluginval / Automation  
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Starting tests in: pluginval / Editor Automation...  
Completed tests in pluginval / Editor Automation  
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Starting tests in: pluginval / Automatable Parameters...  
Completed tests in pluginval / Automatable Parameters  
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Starting tests in: pluginval / auval...  
Completed tests in pluginval / auval  
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Starting tests in: pluginval / vst3 validator...  
Completed tests in pluginval / vst3 validator  
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Starting tests in: pluginval / Basic bus...  
Completed tests in pluginval / Basic bus  
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Starting tests in: pluginval / Listing available buses...  
Inputs:

Named layouts: Mono, Stereo  
Discrete layouts: Discrete #1, Discrete #2

Outputs:

Named layouts: Mono, Stereo  
Discrete layouts: Discrete #1, Discrete #2

Main bus num input channels: 2

Main bus num output channels: 2

Completed tests in pluginval / Listing available buses  
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Starting tests in: pluginval / Enabling all buses...  
Completed tests in pluginval / Enabling all buses  
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Starting tests in: pluginval / Disabling non-main busses...  
Completed tests in pluginval / Disabling non-main busses  
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Starting tests in: pluginval / Restoring default layout...  
Main bus num input channels: 2  
Main bus num output channels: 2  
Completed tests in pluginval / Restoring default layout  
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Validation \* PASSED \*  
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Plug-In Validation Test: ACM520X1 - VST3  
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Started validating: /home/acmt/vst3/ACM520X1.vst3  
Random seed: 0x5322a2f  
Validation started  
Strictness level: 5  
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Starting tests in: pluginval / Scan for plugins located in: /home/acmt/vst3/ACM520X1.vst3...  
Num plugins found: 1

Testing plugin: VST3-ACM520X1-c863bb-5e43f268  
Applied Computer Music Technologies Ltd: ACM520X1 v3.1.4.0  
Completed tests in pluginval / Scan for plugins located in: /home/acmt/vst3/ACM520X1.vst3  
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Starting tests in: pluginval / Open plugin (cold)...  
Completed tests in pluginval / Open plugin (cold)  
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Starting tests in: pluginval / Open plugin (warm)...  
Running tests 1 times  
Completed tests in pluginval / Open plugin (warm)  
-----

Starting tests in: pluginval / Plugin info...

Plugin name: ACM520X1  
Alternative names: ACM520X1  
SupportsDoublePrecision: no  
Reported latency: 0  
Reported taillength: 0  
Completed tests in pluginval / Plugin info  
-----

Starting tests in: pluginval / Plugin programs...  
Num programs: 5  
All program names checked

Changing program  
Completed tests in pluginval / Plugin programs  
-----

Starting tests in: pluginval / Editor...  
Completed tests in pluginval / Editor  
-----

Starting tests in: pluginval / Open editor whilst processing...  
Completed tests in pluginval / Open editor whilst processing  
-----

Starting tests in: pluginval / Audio processing...  
Testing with sample rate [44100] and block size [64]  
Testing with sample rate [44100] and block size [128]  
Testing with sample rate [44100] and block size [256]  
Testing with sample rate [44100] and block size [512]  
Testing with sample rate [44100] and block size [1024]  
Testing with sample rate [48000] and block size [64]  
Testing with sample rate [48000] and block size [128]  
Testing with sample rate [48000] and block size [256]  
Testing with sample rate [48000] and block size [512]  
Testing with sample rate [48000] and block size [1024]  
Testing with sample rate [96000] and block size [64]  
Testing with sample rate [96000] and block size [128]  
Testing with sample rate [96000] and block size [256]  
Testing with sample rate [96000] and block size [512]  
Testing with sample rate [96000] and block size [1024]  
Completed tests in pluginval / Audio processing

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Starting tests in: pluginval / Plugin state...  
Completed tests in pluginval / Plugin state  
-----

Starting tests in: pluginval / Automation...  
Testing with sample rate [44100] and block size [64] and sub-block size [32]  
Testing with sample rate [44100] and block size [128] and sub-block size [32]  
Testing with sample rate [44100] and block size [256] and sub-block size [32]  
Testing with sample rate [44100] and block size [512] and sub-block size [32]  
Testing with sample rate [44100] and block size [1024] and sub-block size [32]  
Testing with sample rate [48000] and block size [64] and sub-block size [32]  
Testing with sample rate [48000] and block size [128] and sub-block size [32]  
Testing with sample rate [48000] and block size [256] and sub-block size [32]  
Testing with sample rate [48000] and block size [512] and sub-block size [32]  
Testing with sample rate [48000] and block size [1024] and sub-block size [32]  
Testing with sample rate [96000] and block size [64] and sub-block size [32]  
Testing with sample rate [96000] and block size [128] and sub-block size [32]  
Testing with sample rate [96000] and block size [256] and sub-block size [32]  
Testing with sample rate [96000] and block size [512] and sub-block size [32]  
Testing with sample rate [96000] and block size [1024] and sub-block size [32]  
Completed tests in pluginval / Automation  
-----

Starting tests in: pluginval / Editor Automation...  
Completed tests in pluginval / Editor Automation  
-----

Starting tests in: pluginval / Automatable Parameters...  
Completed tests in pluginval / Automatable Parameters  
-----

Starting tests in: pluginval / auval...  
Completed tests in pluginval / auval  
-----

Starting tests in: pluginval / vst3 validator...  
Completed tests in pluginval / vst3 validator  
-----

Starting tests in: pluginval / Basic bus...  
Completed tests in pluginval / Basic bus  
-----

Starting tests in: pluginval / Listing available buses...  
Inputs:

Named layouts: Mono, Stereo  
Discrete layouts: Discrete #1, Discrete #2

Outputs:

Named layouts: Mono, Stereo  
Discrete layouts: Discrete #1, Discrete #2

Main bus num input channels: 2

Main bus num output channels: 2

Completed tests in pluginval / Listing available buses  
-----

Starting tests in: pluginval / Enabling all buses...  
Completed tests in pluginval / Enabling all buses  
-----

Starting tests in: pluginval / Disabling non-main busses...  
Completed tests in pluginval / Disabling non-main busses  
-----

Starting tests in: pluginval / Restoring default layout...  
Main bus num input channels: 2  
Main bus num output channels: 2  
Completed tests in pluginval / Restoring default layout  
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Validation \* PASSED \*  
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Plug-In Validation Test: ACM520X1 - CLAP  
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Plugin library tests:

- /home/acmt/clap/ACM520X1.clap
  - scan-time: Tests whether the plugin can be scanned in under 100 milliseconds.  
PASSED: The plugin can be scanned in 3 milliseconds.
  - query-factory-nonexistent: Tries to query a factory from the plugin's entry point with a non-existent ID. This should return a null pointer.  
PASSED
  - create-id-with-trailing-garbage: Attempts to create a plugin instance using an existing plugin ID with some extra text appended to the end. This should return a null pointer.  
PASSED

Plugin tests:

- com.acmt.ACM520X1
  - process-audio-out-of-place-basic: Processes random audio through the plugin with its default parameter values and tests whether the output does not contain any non-finite or subnormal values. Uses out-of-place audio processing.  
PASSED
  - process-note-out-of-place-basic: Sends audio and random note and MIDI events to the plugin with its default parameter values and tests the output for consistency. Uses out-of-place audio processing.  
SKIPPED: The plugin does not implement the 'note-ports' extension.
  - process-note-inconsistent: Sends intentionally inconsistent and mismatching note and MIDI events to the plugin with its default parameter values and tests the output for consistency. Uses out-of-place audio processing.  
SKIPPED: The plugin does not implement the 'note-ports' extension.
  - param-conversions: Asserts that value to string and string to value conversions are supported for either all or none of the plugin's parameters, and that conversions between values and strings roundtrip consistently.  
SKIPPED: The plugin's parameters need to support both value to text and text to value conversions for this test.
  - param-set-wrong-namespace: Sends events to the plugin with the 'CLAP\_EVENT\_PARAM\_VALUE' event type but with a mismatching namespace ID. Asserts that the plugin's parameter values don't change.  
PASSED
  - state-reproducibility-basic: Randomizes a plugin's parameters, saves its state, recreates the plugin instance, reloads the state, and then checks whether the parameter values are the same and whether saving the state once more results in the same state file as before. The parameter values are updated using the process function.  
PASSED

- state-reproducibility-null-cookies: The exact same test as state-reproducibility-basic, but with all cookies in the parameter events set to null pointers. The plugin should handle this in the same way as the other test case.

PASSED

- state-reproducibility-flush: Randomizes a plugin's parameters, saves its state, recreates the plugin instance, sets the same parameters as before, saves the state again, and then asserts that the two states are identical. The parameter values are set updated using the process function to create the first state, and using the flush function to create the second state.

PASSED

- state-buffered-streams: Performs the same state and parameter reproducibility check as in 'state-reproducibility-basic', but this time the plugin is only allowed to read a small prime number of bytes at a time when reloading and resaving the state.

PASSED

12 tests run, 9 passed, 0 failed, 3 skipped

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Validation \* PASSED \*  
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