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SpinCAD Designer Experimental Release 1026

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SpinCAD Designer Experimental Release 1026 (#p3209)

by **Digital Larry** » Sat Sep 01, 2018 9:27 pm

By this point all releases I do are "experimental" which just means that some of the blocks may have extra outputs for debugging, or are half-implemented. I've tried to minimize these.

Build 1026 updates build 1023 from a few days ago.

Fixed bug:

If you tried to save a file, you may have encountered the dreaded "Look at stack trace for info." error. I now initialize all recent file folders and file names upon program start. This mostly helps people who have never run the program before.

Notes for build 1023:

New since build 998 (more than 2 years ago, my how time flies!)

- **Fixed file save when control panel open issue!** In older builds if you have a control panel open when you save the file, you can not open that file ever again due to a serialization error.
- Recently used file lists are limited to 21 entries. Used to be it would just grow and grow and after long enough it would crash because the function to read the list from the registry can't handle it. Plus it was taking too long, and who needs 100 recent files anyway?
- Fixed some logic in file-open and file-save paths. In build 998, if you have a patch loaded in the current slot, and you go to open another one, but then select "Cancel", it would clear the patch anyway. This no longer happens.
- Added 4-voice chorus block (modulation).
- Added 1-in 2-out pitch offset (since there is almost not enough code space for 2 complete pitch offset blocks) (modulation)
- Added Room Reverb block (reverb).
- Added Hall Reverb block (reverb).
- Added 2 pole SVF adjustable block (filters). This features a notch output in addition to a Q control input and control panel settings for max and minimum Q. My notes say "Q control is flipped".
- Updated Chirp so that All Pass coefficient can go from -0.98 to 0.98.

Attachments

[SpinCAD-Designer-1026.zip](#) (./download/file.php?id=181)

(1.71 MiB) Downloaded 280 times

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Re: SpinCAD Designer Experimental Release 1023 (#p3211)

by **madbean** » Sun Sep 02, 2018 3:32 am

This is great! Thanks so much for pushing this through. The new 1/2 pitch block is pretty relevant to things I'm working on 😊

One issue though - can't seem to save anything. When I try to save a patch I get this error:

Look at stack trace for info.

And, now when I open 998 and try to save I get:

This spbk file may be from an incompatible version of SpinCAD Designer.

So, it seems to think I am trying to save a bank when I am saving a patch in 998 and I can't save in 1023 either. My guess is there is something going on with hidden preferences or settings? Maybe the same preferences are used across different version of SpinCAD instead of with each version? Total stab in the dark.

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Re: SpinCAD Designer Experimental Release 1023 (#p3212)

by **Digital Larry** » Sun Sep 02, 2018 5:42 am

That's interesting, I will take a look. To coin a phrase, "it works on my machine"!

I just checked it on my Windows 10 laptop (not my build machine) and I can load patches made in 998 with control panels left open, and save patches, save banks, etc.

The preferences are really only used for:

- Recently used folders
- Recently used file lists

It might be necessary to clear those brute force at least once, I do not know. There's not "supposed to be" any version specific stuff there.

There was one file where I did again see a serialization error trying to load it, but I cannot recall the provenance of that file.

I also loaded one file which threw the "incompatible version" dialog but loaded anyway. This one turns out to be from 2015 and there is code to read the "format 952" file. It just mistakenly shows the "incompatible" dialog anyway. So that's a false negative.

If you have any spcd or spbk files which crash the program or refuse to be loaded properly please send them (and/or the debug log) so I can take a look.

Please tell me:

- What OS you are using
- What do you get from the command "java -version"?
- Attach a debug trace (see [viewtopic.php?f=32&t=1289](#) (<http://holycityaudio.com/forum/viewtopic.php?f=32&t=1289>)) and as much description as possible of exactly how you got there.

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Re: SpinCAD Designer Experimental Release 1023 (#p3213)

by **madbean** » Sun Sep 02, 2018 10:50 pm

Actually, I ended up making it work (both versions). It's a bit strange but at first I was not able to save *new* patches without throwing an error. So, in 998 I loaded up a pre-existing patch which I was able to save. Once I did that, I was then able to save new patches in both 998 and 1023!

So, maybe it is just something in my environment rather than SpinCAD? I'm on Win 8.1 with the latest version of java installed. We might need more users to report in to see if they have similar issues.

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Re: SpinCAD Designer Experimental Release 1023 (#p3214)

by **Digital Larry** » Mon Sep 03, 2018 5:28 am

That's interesting. I will try clearing all preferences and see what happens. I've never tested on Windows 8.1 and I don't think I'm going to start. 😊

Update: that was the trick. I was able to reproduce it by clearing all SpinCAD prefs out of the registry. What winds up happening is that it tries to save your file in the root folder rather than the actual folder you selected and fails as you didn't run the program as admin. **Thanks for helping me find it.** Anyone trying the program for the first time would likely hit this. Not sure I'll get around to fixing it today but for sure this week.

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Re: SpinCAD Designer Experimental Release 1026 (#p3218)

by **Digital Larry** » Thu Sep 06, 2018 10:22 am

Bump, fixed file load/save issues when running on a clean machine.

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Re: SpinCAD Designer Experimental Release 1026 (#p3219)

by **madbean** » Thu Sep 06, 2018 4:12 pm

I really appreciate your work. Downloading now!

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Re: SpinCAD Designer Experimental Release 1026 (#p3222)

by **Ice-9** » Fri Sep 07, 2018 3:00 am

Thanks for the hard work and dedication you put in to this.

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Re: SpinCAD Designer Experimental Release 1026 (#p3223)

by **Digital Larry** » Fri Sep 07, 2018 5:48 am

The hardest thing sometimes is remembering how it all works! Now that I've opened up the hood (aka bonnet) I may just look through the backlog of features and see if any are easy enough to put in without tons of work.

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Re: SpinCAD Designer Experimental Release 1026 (#p3278)

by **Zandercircuitry** » Wed Oct 24, 2018 4:10 am

Awesome! 🤔 A little late to the party but I'm excited to try this!

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Re: SpinCAD Designer Experimental Release 1026 (#p3297)

by **craigslstable** » Fri Nov 02, 2018 7:33 am

I was having same "SAVE" problems with 998 using Win7.
Easy fix was to use the new 1026.

Thank you!

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Re: SpinCAD Designer Experimental Release 1026 (#p3298)

by **Digital Larry** » Fri Nov 02, 2018 2:37 pm

craigslstable wrote:

I was having same "SAVE" problems with 998 using Win7.
Easy fix was to use the new 1026.

Thank you!

Glad to hear it! 😊

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Re: SpinCAD Designer Experimental Release 1026 (#p3320)

by **Jacko** » Fri Nov 23, 2018 9:52 am

I was having problems loading saved patches when I put SpinCAD on my updated Win 10 computer... the error looked like this:

```
# A fatal error has been detected by the Java Runtime Environment:
#
# EXCEPTION_ACCESS_VIOLATION (0xc0000005) at pc=0x0000000054466adf, pid=7012, tid=1580
#
# JRE version: Java(TM) SE Runtime Environment (8.0_91-b15) (build 1.8.0_91-b15)
# Java VM: Java HotSpot(TM) 64-Bit Server VM (25.91-b15 mixed mode windows-amd64 compressed oops)
# Problematic frame:
# C [msvcr100.dll+0x36adf]
```

The problem turned out to be that I had a God Mode folder on my desktop. Once I deleted that folder, everything worked properly!

Very odd, but if you are having problems loading or saving files or banks, check to see if you have a God Mode link anywhere on your PC.

Best regards, Jack

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Re: SpinCAD Designer Experimental Release 1026 (#p3331)

by **Digital Larry** » Thu Dec 06, 2018 7:44 am

Jacko wrote:

I was having problems loading saved patches when I put SpinCAD on my updated Win 10 computer... the error looked like this:

The problem turned out to be that I had a God Mode folder on my desktop. Once I deleted that folder, everything worked properly!

Very odd, but if you are having problems loading or saving files or banks, check to see if you have a God Mode link anywhere on your PC.

Best regards, Jack

Thanks Jack. Another thing I didn't know about and from the sound of it just as well!

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Re: SpinCAD Designer Experimental Release 1026 (#p3480)

by **btschock** » Tue May 14, 2019 5:10 pm

I know this is a long shot but can you bring back the tiny reverb blocks that I could use with long delay lines.

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Re: SpinCAD Designer Experimental Release 1026 (#p3481)

by **Digital Larry** » Thu May 16, 2019 8:44 pm

btschock wrote:

I know this is a long shot but can you bring back the tiny reverb blocks that I could use with long delay lines.

I'm not sure exactly what you mean here.

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Re: SpinCAD Designer Experimental Release 1026 (#p3551)

by **rodlemos** » Thu Aug 01, 2019 5:18 pm

Hey guys, can you help me to found release 1023? I'm studying some patches and banks, but someone didn't open on 1026 version, thanks a lot

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Re: SpinCAD Designer Experimental Release 1026 (#p3552)

by **Digital Larry** » Sun Aug 04, 2019 9:39 am

rodlemos wrote:

Hey guys, can you help me to found release 1023? I'm studying some patches and banks, but someone didn't open on 1026 version, thanks a lot

It's a little hard to imagine that 1023 works better than 1026, but just in case, can you please run 1026 in debug mode while reproducing the issue and paste the results here?

See: [viewtopic.php?f=32&t=1289](http://holycityaudio.com/forum/viewtopic.php?f=32&t=1289) (<http://holycityaudio.com/forum/viewtopic.php?f=32&t=1289>)

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Re: SpinCAD Designer Experimental Release 1026 (#p3567)

by **Firesledge** » Fri Aug 16, 2019 9:54 am

Hi, thank you for this new version. I found this bug:

File -> Open [anything] -> Cancel

The whole interface becomes a mess (redraw issues) and SpinCAD is unusable.

Another thing looking weird to me: I dumped the ASM of a patch and found that the cosine output from the Sin/Cos LFO module uses CHO RDAL,8 (8 = inverted sine). I think this should be CHO RDAL,1 (reference doc (http://www.spinsemi.com/knowledge_base/inst_syntax.html#CHO)).

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Re: SpinCAD Designer Experimental Release 1026 (#p3568)by **Digital Larry** » Fri Aug 16, 2019 10:59 am

Ah... yeah File Cancel. Good catch! 😊 Be nice if there were prizes for stuff like that.

What do you think if you try the algorithm? Cos vs Sin. Just route the SIN and cos to 2 outputs then look at them on a scope if you have one. Otherwise it will have to wait for me to do it.

I haven't double checked in this specific case but you have to know that Spin documentation has a fair number of errors in it that have never been corrected.

Thanks!

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