

Category	Description	Reviewers Comment	Action taken by reviewed group
Build	Could you clone from Git and build using the README file?	No issues getting it to build. The readme seems to be plenty extensive for describing the build process.	
Legibility	Was the flow sane and were variable names and methods easy to follow? Does the code adhere to general guidelines and code style?	It is difficult to follow the code. Variable names in a lot of places are not very descriptive. There are many with names like 'old, cold, cn, vn, etc.' These are then used to set up various states. It is difficult to see what is going on here. Maybe some more descriptive names for the variables or some comments for what they are each for? There are a bunch of sections that are doing some esoteric math on various matrices that are basically impossible to read. Some comments would be nice here, at least describing at a high level what each bit of math is doing (If this knowledge is even available, who knows how useful the original Fortran is for explaining this stuff).	
Implementation	is it shorter/easier/faster/cleaner/safer to write functionally equivalent code? Do you see useful abstractions?	I'm not sure if there's any way to abstract this at all. The Fortran seems to be a giant list of matrix operations, which the C code is doing as well. This obviously makes it seem extremely low level and unintuitive. Aside from readability issues, I'm not sure abstraction could be improved. It would be nice if in the C and Python each file was described in some way, maybe just a short description for each one. Especially for the Python where a lot of it should be your code rather than translated code, it	

		seems reasonable to be a bit more descriptive about what's going on.	
Maintainability	Are there unit tests? Should there be? Are the test covering interesting cases? Are they readable?	There is only one test case provided by the client. This is a relatively complex simulation. It seems a little risky to base the accuracy of the simulation on just one example. I'm sure you've talked to the client about this, but it would be nice to have more test cases.	
Requirements	Does the code fulfill the requirements?	It does seem to fulfill the requirements document. It was intended to be a modernization of Fortran running on a c backend. The python frontend also looks decent and seems quite a bit more usable than it was before. The only thing that is a bit concerning is just how difficult the modern code is to read. Although it is probably more portable than the Fortran, I don't think it is much easier to debug or maintain. If being able to modify this in the future is a concern, than I think readability of the project should be improved.	
Other	Are there other things that stand out that can be improved?	Nothing I can think of.	

