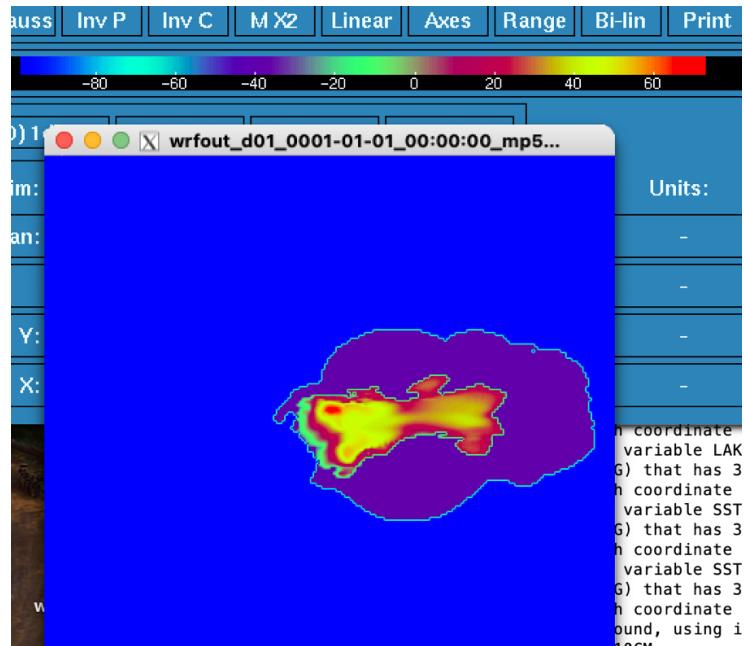
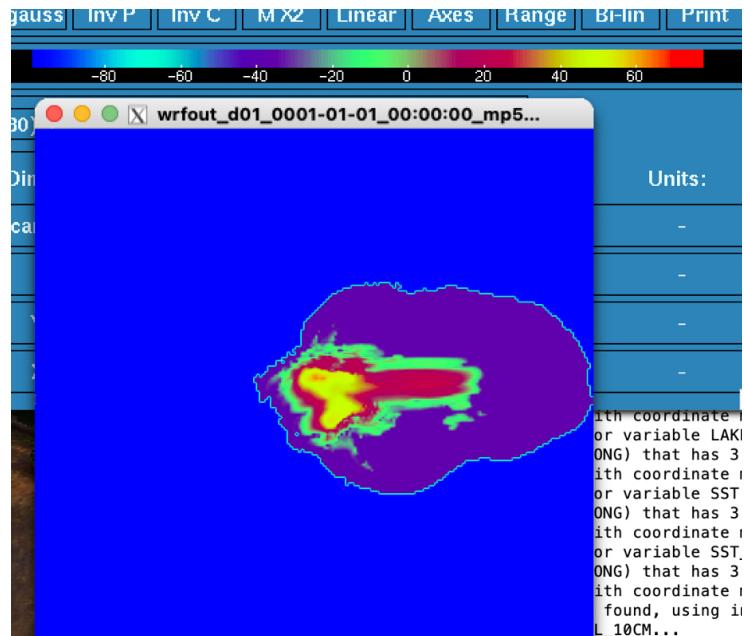


This documents tests in WRF for mp50 and mp51 for P3v5.4.9-rc2 code. For mp50, it bit matches the previous cleanup-wrffixes-v4 branch. For mp51, it does not bit match but the different are indistinguishable by eye. Results for lowest model level reflectivity (t = 1 hr, quarter_ss supercell case) are shown below.

MP50:

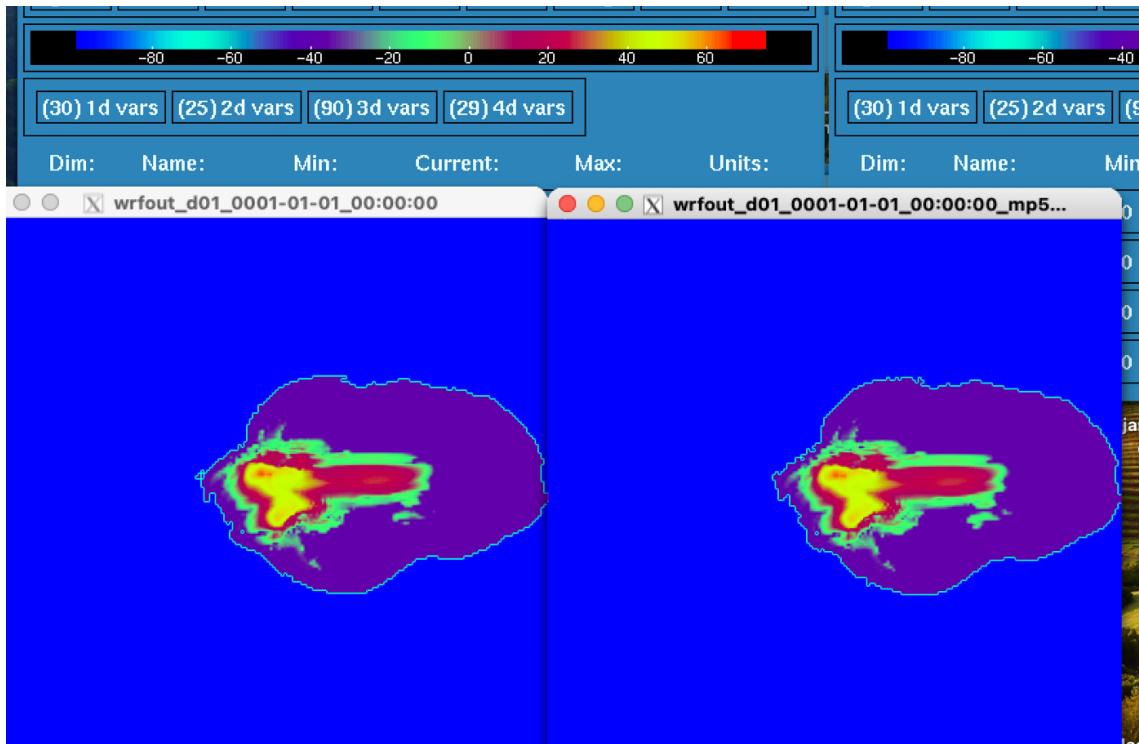


MP51:



The P3 v5.4.9 code was also tested with full vs. original 3-moment for MP51. Differences are very, very small (there are differences, but you have to stare at the plots to see them). This is somewhat surprising.

Full 3-moment on left, original on right, lowest model level reflectivity.



Timing differences are virtually identical (1:38 for the full run using 128 cores on Derecho).