

P2 Speeding WRF I/O with parallel IO

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When run WRF model on domain of 1000x1000 or larger, the I/O become a big issue to handle. Currently, so some people has used splitter to speed up the IO. But then have to handle hundreds or thousands of small files, such as to run another job to stich them together. Another option is to use quilt I/O, which some CPUs have to be seperated from computation and dedicated to I/O.

Parallel IO developed by NCAR and Argone Natioanal Lab gives the advantage of create a single WRF output file, and speedup the IO speed 10 times or more on a large domain.

We will present how PIO is implemented in WRF. Then show some results of a large domain run with several computational configurations.