GEMINI core model temporal time step calculations; stability evaluation and time-step choice neutral computes neutral atmosphere: MSIS background and perturbations from MAGIC potential_comm sets up and solves electrodynamic equation multifluid solves full system of fluid equations (all ion species) io file input (config and initial

conditions) and output

<u>Key</u>

main program flow

module functional

dependence

submodule

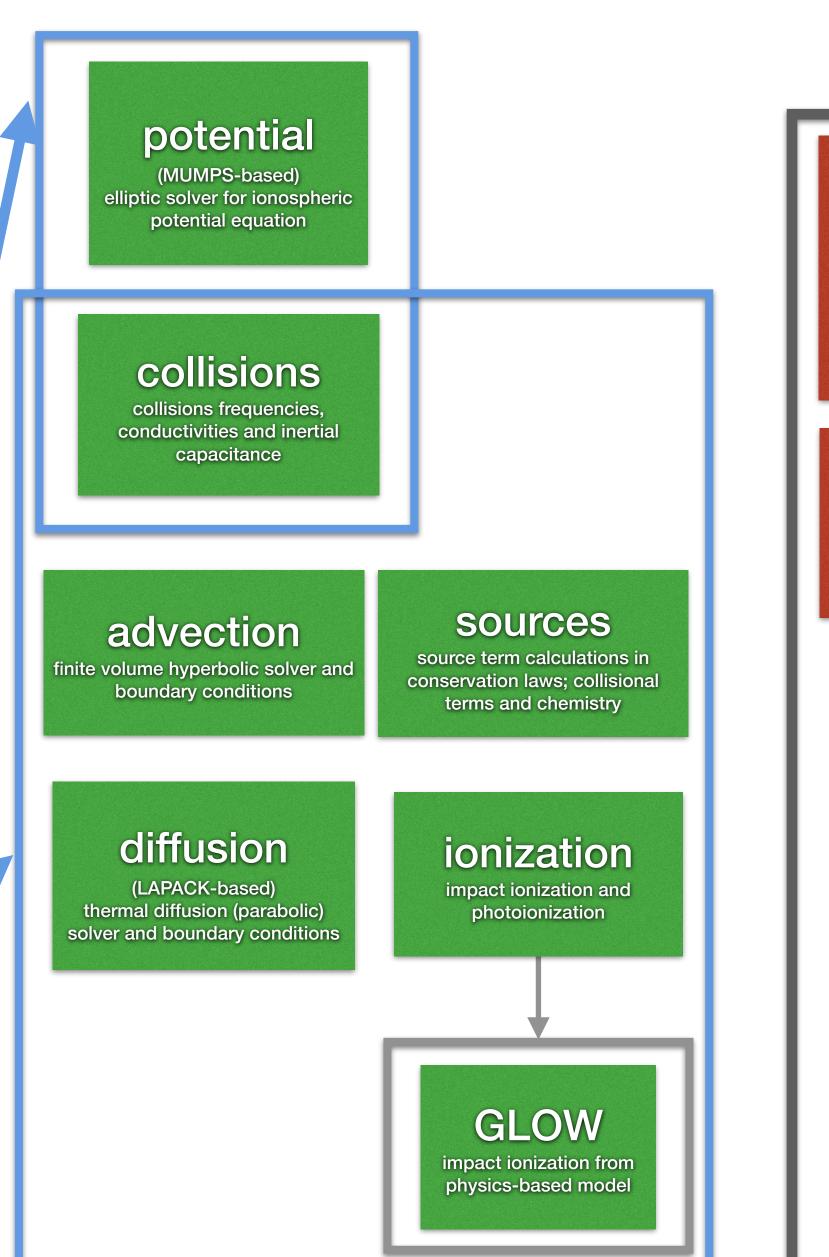
numerical

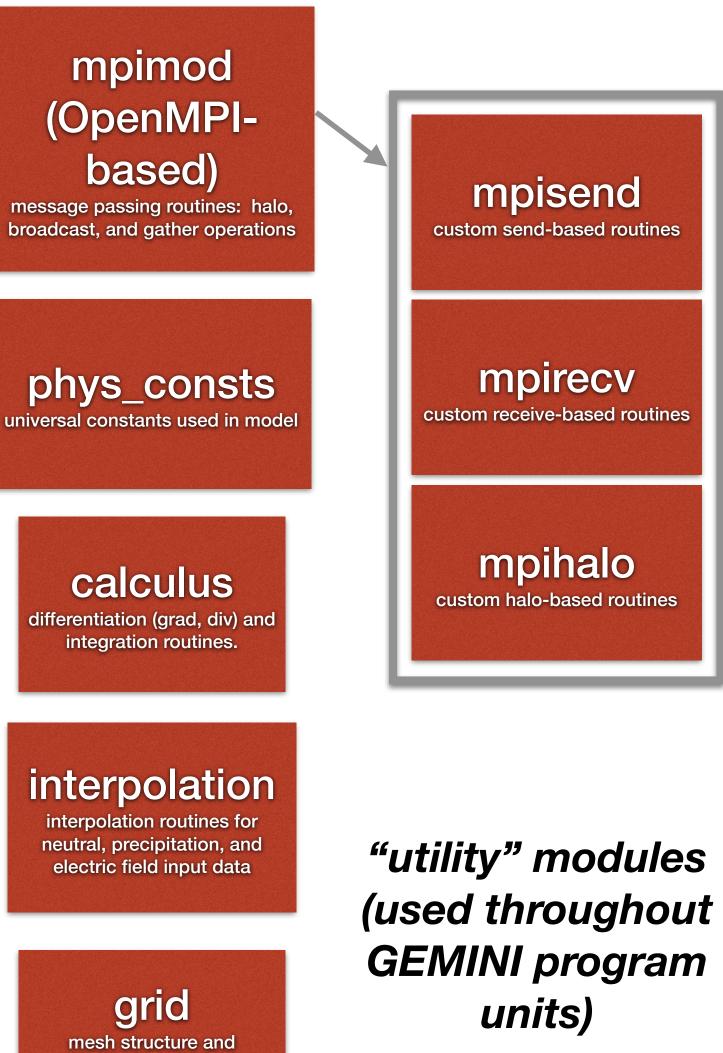
utility module

encapsulation

top-level modules

component module





associated routines to read

grid file