

Continue from Figure 2 Time step start signal RAVEN RELAP-7 Driver Time step end signal MOOSE New \bar{C} values \bar{a} old values \bar{v} old values User provided RAVEN \bar{C} new values Control Logic control logic *Python-C++* implementation \bar{a} new values Interface \bar{v} new values \bar{C} new values RELAP-7 \bar{v} new values RAVEN MOOSE RELAP-7 Interface Time marching forward: $t = t + \Delta t$ One time step has **RAVEN** $\bar{v}_{t_{i-1}} \leftarrow \bar{v}_{t_i}$ been performed Driver $\bar{a}_{t_{i-1}} \leftarrow \bar{a}_{t_i}$

Figure 1 Calculation Flow