

Abstract Submitted
for the DPP17 Meeting of
The American Physical Society

FLASH Interface; a GUI for managing runtime parameters in FLASH simulations.¹ CHRISTOPHER WALKER, PETROS TZEFERACOS, KLAUS WEIDE, DONALD LAMB, NORBERT FLOCKE, SCOTT FEISTER, Univ of Chicago — We present FLASH Interface, a novel graphical user interface (GUI) for managing runtime parameters in simulations performed with the FLASH code. FLASH Interface supports full text search of available parameters; provides descriptions of each parameter's role and function; allows for the filtering of parameters based on categories; performs input validation; and maintains all comments and non-parameter information already present in existing parameter files. The GUI can be used to edit existing parameter files or generate new ones. FLASH Interface is open source and was implemented with the Electron framework, making it available on Mac OSX, Windows, and Linux operating systems. The new interface lowers the entry barrier for new FLASH users and provides an easy-to-use tool for experienced FLASH simulators.

¹U.S. Department of Energy (DOE), NNSA ASC/Alliances Center for Astrophysical Thermonuclear Flashes, U.S. DOE NNSA ASC through the Argonne Institute for Computing in Science, U.S. National Science Foundation

Christopher Walker
Univ of Chicago

Date submitted: 14 Jul 2017

Electronic form version 1.4