Why not jump-start your CubeSat's software development?

cFS is a software framework that enables rapid development and portability through its a dynamic run-time environment, layered architecture, and component-based design. cFS provides the tools and flexibility you need to implement a robust software system that meets your cutting-edge mission requirements and provides over a decade of NASA mission heritage.

Don't start from scratch ever again!

Write Once Run Anywhere

Once you develop a cFS application you can easily port it to other hardware platforms and operating systems thanks to the Operating System Abstraction Layer OSAL and the Platform Support Package PSP

Chat With The Experts

cFS has a solid and growing community of flight software engineers who are invested in improving the system and will answer questions about developing apps, customizing the source code, and implementing your embedded software project. Join our mailing list!

What makes cFS Different

cFS originated from the collective experiences of flight software engineers at NASA. We are committed to delivering high-quality, robust software that stands up to the rigorous standards and testing needed to ensure the safety and success of high-profile space missions. We are sharing cFS with the world to improving the quality and accessibility of embedded software for robotic applications worldwide.

Simple, powerful architecture

The tried-and-true bus architecture of the executive combined with the layered approach of cFS' abstraction layers and the modular approach to the codebase gives the simplicity needed by new users and the flexibility required by highly custom projects without sacrificing the quality and reliability of the system.