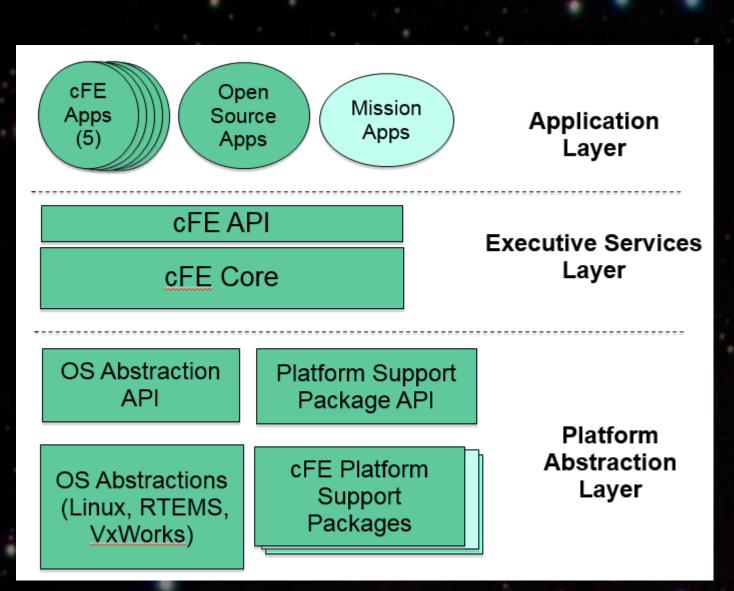


CORE FLIGHT SYSTEM (CFS) STARTER KIT

OPENSATKIT.GITHUB.IO

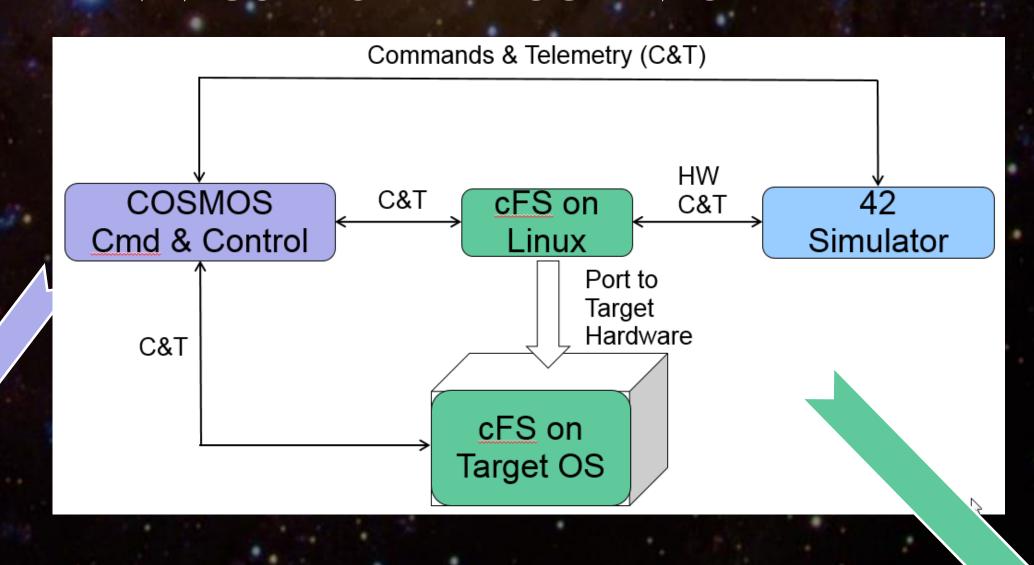


CFS OVERVIEW

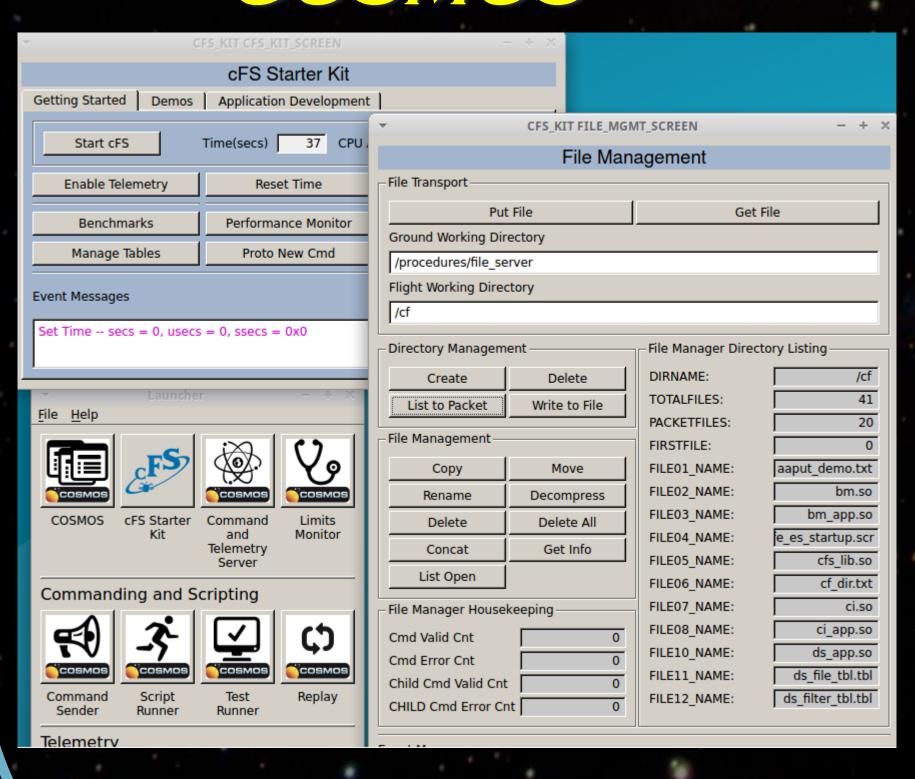
- CFS IS A MATURE HIGH QUALITY OPEN SOURCE FLIGHT SOFTWARE (FSW) FRAMEWORK
- Used on Flagship NASA missions (GPM, LADEE, LRO,..)
- SCALABLE FOR USE ON CUBESATS (CERES, DELLINGR,...)
- COLLECTION OF A REUSABLE PLATFORM ABSTRACTIONS
 AND APPLICATIONS

CFS STARTER KIT

- TURNKEY FSW RUNTIME ENVIRONMENT USING OPEN SOURCE COMPONENTS
- COSMOS AND COMMON CFS APPS PRE-CONFIGURED TO PROVIDE AN OPERATIONAL SYSTEM
- IDEAL FOR RAPID DEVELOPMENT AND TEST OF CUBESAT/SMALLSAT FLIGHT SOFTWARE
- BUILT-IN DEMOS SIMPLIFY CFS LEARNING CURVE
- REDUCE COST AND RISK FOR CUBESAT/SMALLSAT FSW EFFORTS
- PORTING FROM A WORKING TARGET TO A MISSION-SPECIFIC TARGET GREATLY SIMPLIFIES INITIAL FLIGHT SOFTWARE DEVELOPMENT EFFORT
- DEAL FOR FLIGHT SOFTWARE EDUCATION AND OUTREACH



COSMOS



SOFTWARE-ONLY DESKTOP TARGET



File Edit View Terminal Tabs Help CFE_PSP: Default Reset Type = P0 CFE_PSP: Default Reset SubType = 1 CFE_PSP: Default CPU ID = 1 CFE_PSP: Default Spacecraft ID = 42 CFE_PSP: Default CPU Name: cpul CFE_PSP: Default CPU Name: cpul CFE_PSP: Starting the cFE with a POWER ON reset. CFE_PSP: Clearing out CFE CDS Shared memory segment. CFE_PSP: Clearing out CFE Reset Shared memory segment. CFE_PSP: Clearing out CFE User Reserved Shared memory segment. CFE_PSP: Clearing out CFE User Reserved Shared memory segment. 2026-332-17:46:05.89060 POWER ON RESET due to Power Cycle (Power Cycle). 2026-332-17:46:05.89115 ES Startup: CFE_ES_Main in EARLY_INIT state CFE_PSP: CFE_PSP_AttachExceptions Called 2026-332-17:46:05.89162 ES Startup: CFE_ES_Main entering CORE_STARTUP state 2026-332-17:46:05.89162 ES Startup: Starting Object Creation calls. 2026-332-17:46:05.89162 ES Startup: Calling CFE_ES_COSEarlyInit 2026-332-17:46:05.89209 ES Startup: Calling CFE_ES_CosearlyInit 2026-332-17:46:05.89252 Event Log cleared following power-on reset 2026-332-17:46:05.89254 ES Startup: Calling CFE_ES_BEarlyInit 1980-012-14:03:20.000044 ES Startup: Calling CFE_TIME_EarlyInit 1980-012-14:03:20.000044 ES Startup: Calling CFE_TBL EarlyInit 1980-012-14:03:20.000044 ES Startup: Core App: CFE_EVS created. App ID: 0 EVS Port1 42/1/CFE_EVS 14: No subscribers for MsgId 0x808,sender CFE_EVS EVS Port1 42/1/CFE_EVS 1: cFE_EVS Initialized. cFE_Version 6.5.0.0