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# **HSTCAL Documentation**

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HSTCAL is a C-based package which is comprised of the science calibration software in support of the Advanced Camera for Surveys (ACS), Space Telescope Imaging Spectrograph (STIS), and Wide Field Camera 3 pipelines. Initially, the pipelines were written using C, but were encapsulated within the IRAF/STSDAS environment, relying on IRAF to perform I/O and other basic interface functions. HSTCAL replaces all the IRAF-based functionality with routines based on the third-party package CFITSIO. This allows all the pipeline software to be compiled and run without any dependence on IRAF. Not only can HST data be processed using the C code directly via the C executables, but the pipelines can also run by using a high-level Python interface. The Python interface scripts are thin wrappers for the C executables.

Detailed documentation for each instrument's calibration processing code can currently be found in the following locations:



# CHAPTER 1

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ACS

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<http://acstools.readthedocs.io/en/latest/>





## CHAPTER 2

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WFC3

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<http://wfc3tools.readthedocs.io/en/latest/>



## CHAPTER 3

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STIS

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<http://stistools.readthedocs.io/en/latest/>



## CHAPTER 4

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COS

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[http://www.stsci.edu/hst/cos/documents/handbooks/datahandbook/COS\\_cover.html](http://www.stsci.edu/hst/cos/documents/handbooks/datahandbook/COS_cover.html)



## CHAPTER 5

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### Drizzlepac

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<http://www.stsci.edu/scientific-community/software/drizzlepac.html>