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## Timing Analysis

In order to perform absolute timing analysis on a dataset, a barycenter correction must first be applied to the data. One may then create lightcurves and phase-binned spectra to look for variability in the source. These threads also provide information on working with data taken in the ACIS continuous clocking (CC) mode.

- **General:**

- ◆ Why topic: [Continuous Clocking Mode](#)
- ◆ [Calculate CC-mode Times of Arrival](#)
- ◆ [Apply Barycenter Correction](#)
- ◆ [Create a Phase-binned Spectrum](#)

- **Analyzing Lightcurves:**

- ◆ Why topic: [Timing Analysis with Lightcurves](#)
- ◆ [Basic Lightcurves](#)
- ◆ [Filtering Lightcurves](#)  
Uses: the `analyze_ltcrv.sl` S-Lang script

- See the [S-lang/ISIS Timing Analysis Routines \(SITAR\)](#) package which provides a set of functions and subroutines for timing analysis within ISIS.

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URL:  
<http://cxc.harvard.edu/ciao3.4/threads/timing.html>  
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## Timing Analysis Threads – CIAO 3.4