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Subject: reading slices of FITS files

Posted by [Jeremy Bailin](#) on Tue, 18 Nov 2008 15:30:57 GMT

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Maybe someone with better knowledge of the myriad of FITS-related routines has some experience in this...

I have an extremely large FITS data cube, and I only want to read in a single slice in the first or second dimension. I.e. I want something that is functionally equivalent to:

```
dataslice = (readfits(filename))[xslice,*,*]
```

but faster. READFITS does have a handy NSLICE keyword, but as far as I can tell it will only give a slice in the final dimension. I imagine that it's implemented that way because only slices in the final dimension are stored contiguously in the file, but it should certainly be possible to extract slices in other dimensions more efficiently than reading in the entire file. Maybe one of the 15 other FITS reading procedures does what I want? ;-)

-Jeremy.

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