



S–lang–related Bugs: get_mcounts_sum

Bugs

1. *Problems calculating flux and counts over a range.*

The behavior described in this bug applies to the following commands:

- ◆ `[B]EFLUX`,
- ◆ `[B]PFLUX`,
- ◆ `[B]DCOUNTS`,
- ◆ `[B]MCOUNTS`,
- ◆ and the corresponding "get" commands (e.g. `get_eflux`).

Given $x > 0$:

1. `"EFLUX (0 : x)"` returns the same value as `"EFLUX"` (i.e. the flux over the full range of the dataset), when it should return the flux integrated from the start of the dataset to x .
2. `"EFLUX (x : 0)"` returns the same value as `"EFLUX (x)"`. This should return an error since $x > 0$, so the range isn't sensible.

Workaround:

replace 0 with a small decimal, e.g. 0.001. Then case 1 gives the correct answer (flux from the start of the dataset to x), and case 2 gives 0 (which at least tells you that you did something wrong).

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URL:
http://cxc.harvard.edu/sherpa3.4/bugs/sl_get_mcounts_sum.html

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