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## S-lang-related Bugs: run\_proj

### Bugs

1. *run\_proj( ) returns NULL if the error estimate for any one of the free parameters fails to converge.*

If `get_proj()`, it returns the S-Lang structures for the parameters that did converge. The behavior of these functions will be made consistent in a future release.

2. *Running any Sherpa/S-Lang module function that involves matrix inversion results in a SegV. (Mac OS X)*

e.g. `run_fit` with `LM`, `run_proj` with `LM`, `run_cov` with any optimizer.

#### Workarounds:

1. Use the analogous *Sherpa* commands – `fit`, `projection`, `covariance` – which work correctly.
2. For fitting and projection, change to an optimizer that doesn't rely on matrix inversion (that is, any optimizer but `LM`).

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