

Severity Class Cheat Sheet

```
m Severity(name, sev_name="", sev_a=np.nan, sev_b=0, sev_mean=0, sev_cv=0, sev_loc=0, sev_scale=0,
sev_xs=None, sev_ps=None, sev_wt=1, sev_lb, sev_ub, sev_conditional=True)
```

The following tables show all **m** methods, and fields or properties (used interchangeably). Comments elucidate the meaning of more obscure entries.

1. Specification & creation

name *expl*
sev_name *expl*
sev_a *expl*
sev_b *expl*
sev_mean *expl*
sev_cv *expl*
sev_loc *expl*
sev_scale *expl*
sev_xs *expl*
sev_ps *expl*
sev_wt *expl*
sev_lb *expl*
sev_ub *expl*
sev_conditional *expl*

2. Update

m cv_to_shape, **m** mean_to_scale, pattach, pdetach,

3. Moments

m generic_moment, **m** mean, **m** median, **m** moment, **m** moment_type, **m** moms, sev1, sev2, sev3, **m** stats, **m** std, **m** support, **m** var,

4. Statistical functions

m cdf, **m** entropy, **m** expect, **m** interval, **m** isf, **m** logcdf, **m** logpdf, **m** logsf, **m** nmlf, **m** pdf, **m** ppf, **m** rvs, **m** sf, **m** vecentropy,

5. Validation

None

6. Output dataframes

None

7. Reinsurance

None

8. Visualization

m plot,

9. Risk and pricing

None

10. Approximations

m fit, **m** fit_loc_scale, **m** freeze,

11. Meta

fz, random_state, xtol,

Notes:
[0]: Arguments sev_pick_attachments=None, sev_pick_losses=None, omitted; see help.
[1]: matches Portfolio
Any vectorizable input accepts numeric or iterable datatypes.
Abbreviations: gcn=gross (subject), ceded, and net; stats: m=mean, cv=coefficient of variation, sd=standard deviation, var=variance, skew(ness); VaR=value-at-risk

