S - main script to call

S - 3 structures as input:

1, data set
2, measurement settings
3, what to calculate

data set:
generated/measured waveform
in form of pairs x,y

measurement settings:
parameters of DAC/ADC etc, uncertainties

what to calculate:
variable, (algorithm), uncertainty

S - returns:

mode calc
variable, uncertainty
or: list of missing parameters
or: missing algorithm file
or: one of structures incorect

mode list
list of variables, for all variables possible algorithms

mode parameters
list of parameters for selected variables at specific algorithm

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A_info: gives informations about specific **A**:
what it can calculate
what it needs

translates rigid structures to values required by the **A** itself

returns:
translate output of **A** to rigid structure

SA - select algorithm
measurement conditions: part data character
single tone, harmonic, ...
returns proper algorithm for required variable, based on Rado's table

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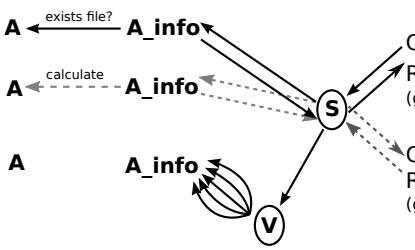
V - variator:

variates variables according to uncertainties
what about covariances? (and are they really problem?)

Use flow:



Q: Abilities list?
R: List of variables (algorithms)
(goes through all found **A_info** and asks)

Q: Required parameters for variable X (algorithm **A**)?
R: List of parameters
(goes through all found **A_info**, asks for variable, if so, collects parameters)

Q: Calculate variable X (algorithm **A**)
R: Result
(asks for required parameters, checks if all required data is presnet, sents data to **A_info**, **A_info** checks for required data, runs calculation)

Q: Calculate uncertainty of variable X (algorithm **A**)
R: Result
(asks for req. params., checks if req. data and unc. present, variates inputs, run MC calculation)