

## calc\_thd.gce

### Attributes

```
mainvars: x
rparms:
+   t_start=0
+   t_end=0
```

### Description

`calc_thd.gce` is a post-processing element and is used to compute the average and rms values of the input `x`, assumed to be periodic. In addition, it also computes the total harmonic distortion (THD). The average/rms values and THD are made available as output variables. The real parameters `t_start` and `t_end` specify the interval over which the average/rms values and THD are to be computed. The user should ensure that this interval corresponds to **one** period of  $x(t)$ .

When the output variable(s) computed by this element is written to an output file of a solve block, it is expected that the variable `x` is also made available in an output file in the same solve block, but the two output files must be distinct.

This element is not used in AC analysis.