

```
1 module raw_arrays
2
3   use constants_and_parameters
4   implicit none
5
6   type                                :: array_characteristics
7
8     real ( wp )                      :: array_max   = zero
9     real ( wp )                      :: array_min   = zero
10    real ( wp )                      :: array_mean  = zero
11    real ( wp )                      :: array_sd    = zero
12
13  end type                            array_characteristics
14
15 end module raw_arrays
16
17 module HELIOS_files
18
19 ! use constants_and_parameters
20 use linear_regression_results
21 use raw_arrays
22 implicit none
23
24 type                                :: HELIOS_output
25
26 ! HELIOS output
27 real ( wp )                        :: array_scaled   ( num_pts_temp,
28 real ( wp )                        :: array_normalized ( num_pts_temp,
29
30 type ( array_characteristics ) :: array_scaled_characteristics
31 type ( array_characteristics ) :: array_normalized_characteristics
32
33 real ( wp )                      :: pts_temp        ( 1 : num_pts_t
34 real ( wp )                      :: pts_density      ( 1 : num_pts_d
35
36 type ( lr_results )              :: pts_temp_lr
37 type ( lr_results )              :: pts_density_lr
```

```
38
39     end type                                HELIOS_output
40
41 end module HELIOS_files
```