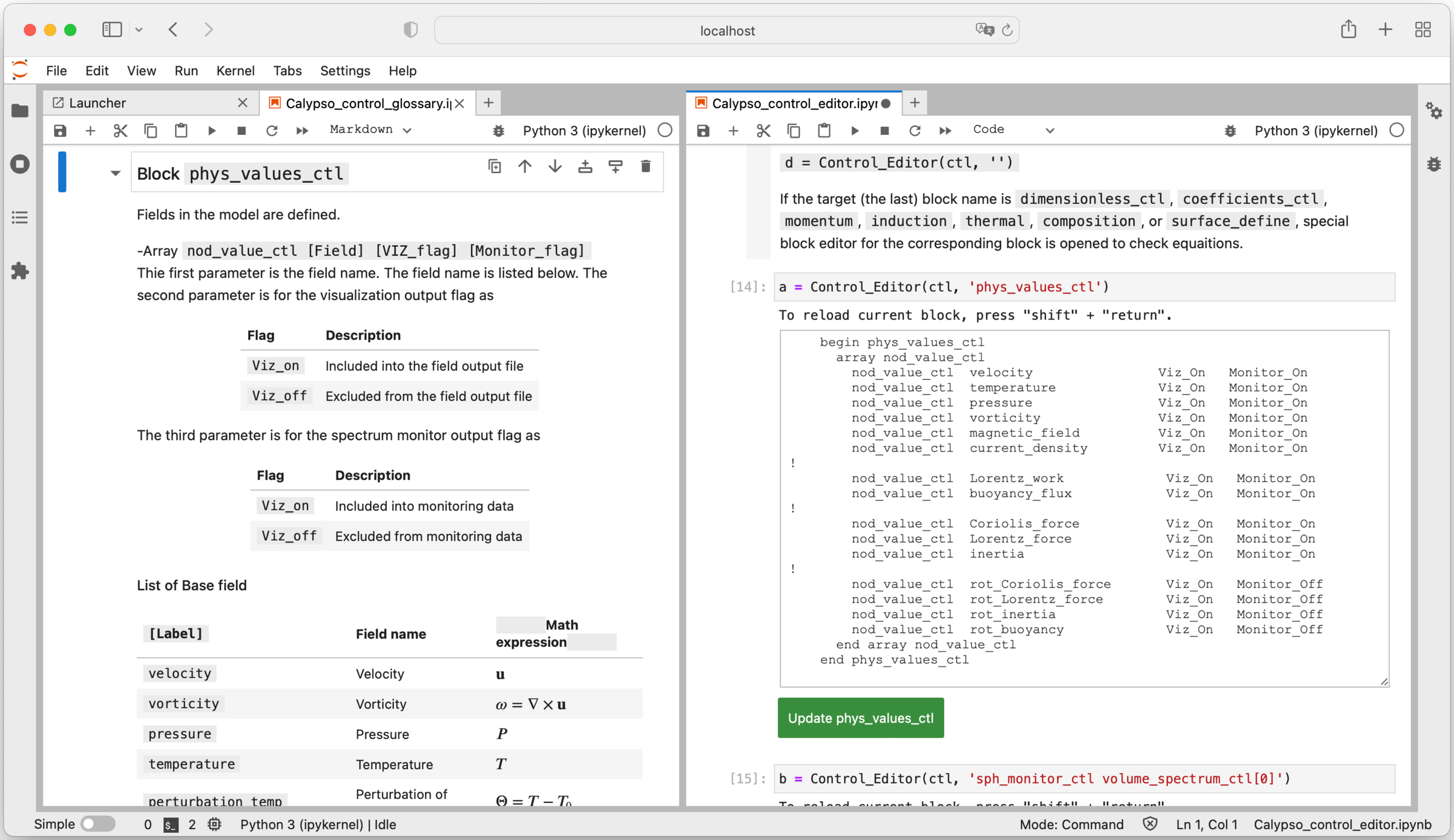
localhost
File Edit View Run Kernel Tabs Settings Help
Launcher
Calypso_control_glossary.i
Markdown
Python 3 (ipykernel)
Block phys_values_ctl
Fields in the model are defined.
-Array nod_value_ctl [Field] [VIZ_flag] [Monitor_flag]
Thie first parameter is the field name. The field name is listed below. The second parameter is for the visualization output flag as
Flag
Description
Viz_on
Included into the field output file
Viz_off
Excluded from the field output file
The third parameter is for the spectrum monitor output flag as
Flag
Description
Viz_on
Included into monitoring data
Viz_off
Excluded from monitoring data
List of Base field
[Label]
Field name
Math expression
velocity
Velocity
$\mathbf{u}$
vorticity
Vorticity
$\omega = \nabla \times \mathbf{u}$
pressure
Pressure
P
temperature
Temperature
T
perturbation temp
Perturbation of
$\Theta = T - T_0$
Calypso_control_editor.ipyr
Code
Python 3 (ipykernel)
d = Control_Editor(ctl, '')
If the target (the last) block name is dimensionless_ctl, coefficients_ctl, momentum, induction, thermal, composition, or surface_define, special block editor for the corresponding block is opened to check equaitions.
[14]:
a = Control_Editor(ctl, 'phys_values_ctl')
To reload current block, press "shift" + "return".
begin phys_values_ctl
array nod_value_ctl
nod_value_ctl velocity Viz_On Monitor_On
nod_value_ctl temperature Viz_On Monitor_On
nod_value_ctl pressure Viz_On Monitor_On
nod_value_ctl vorticity Viz_On Monitor_On
nod_value_ctl magnetic_field Viz_On Monitor_On
nod_value_ctl current_density Viz_On Monitor_On
!
nod_value_ctl Lorentz_work Viz_On Monitor_On
nod_value_ctl buoyancy_flux Viz_On Monitor_On
!
nod_value_ctl Coriolis_force Viz_On Monitor_On
nod_value_ctl Lorentz_force Viz_On Monitor_On
nod_value_ctl inertia Viz_On Monitor_On
!
nod_value_ctl rot_Coriolis_force Viz_On Monitor_Off
nod_value_ctl rot_Lorentz_force Viz_On Monitor_Off
nod_value_ctl rot_inertia Viz_On Monitor_Off
nod_value_ctl rot_buoyancy Viz_On Monitor_Off
end array nod_value_ctl
end phys_values_ctl
Update phys_values_ctl
[15]:
b = Control_Editor(ctl, 'sph_monitor_ctl volume_spectrum_ctl[0]')
Simple
0 2 Python 3 (ipykernel) | Idle
Mode: Command
Ln 1, Col 1
Calypso_control_editor.ipynb