

Using VE-Builder with StarCD

1. Launch StarCD

2. Ensure that a *.vrt and *.cel file is written of the region of interest. This region can either be a complete CFD model or a subsection of the model.

3. Analyze data

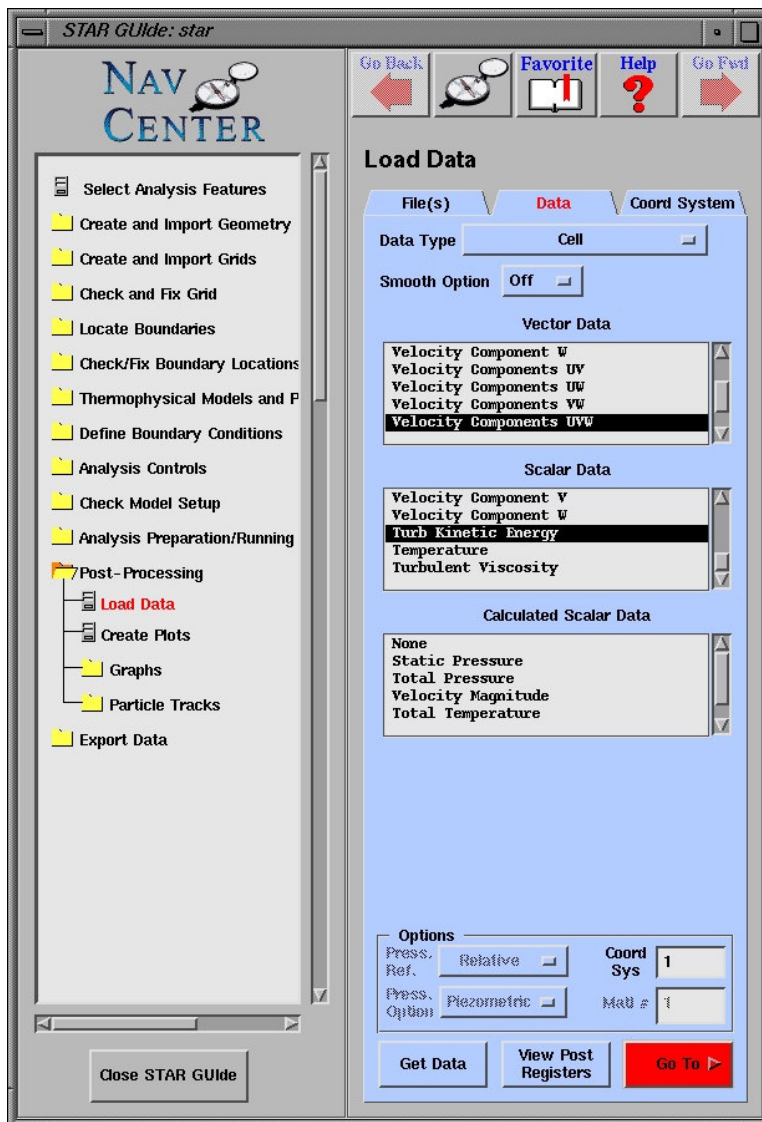
4. Post-processing > Load data

4.1 In "File(s)" tab, click "open post file"

4.2 In "Data" tab:

--Scalar Data > Turb Kinetic Energy

--Vector Data > Velocity Components UVW



5. Click "Get Data"

6. Click "View Post Registers"

7. To add scalars:

7.1 Click "Operate"

Post Register Data

Update List

Close

Show Set Data Only

Show All Data

Vector Data

Scalar Data

Register 1

Register 2

Register 3

Register 4

Register 5

Register 6

U

V

W

TE

P

VIS

| | | | | | | | |
|-----|------|---------|--------------|---------|------------|----------|-------------|
| Set | Cell | 1.19323 | -0.00760667 | 9.21703 | 0.0117559 | 0 | 0.000473071 |
| * | 1 | 1.19323 | -0.00760667 | 9.21703 | 0.0117559 | 0 | 0.000473071 |
| * | 2 | 1.19576 | -0.0223717 | 9.21527 | 0.0110828 | 0.177026 | 0.000449452 |
| * | 3 | 1.20911 | -0.0548279 | 9.21542 | 0.0111432 | 0.644832 | 0.0004514 |
| * | 4 | 1.24085 | -0.0591181 | 9.1276 | 0.0113552 | 1.59902 | 0.000456125 |
| * | 5 | 1.25549 | -0.0345348 | 9.12621 | 0.0113352 | 2.15746 | 0.000454786 |
| * | 6 | 1.26118 | -0.020473 | 9.12871 | 0.0113463 | 2.48366 | 0.000455018 |
| * | 7 | 1.26326 | -0.0120014 | 9.12906 | 0.0113519 | 2.6826 | 0.000455135 |
| * | 8 | 1.26336 | -0.00619301 | 9.13024 | 0.0113592 | 2.792 | 0.000455288 |
| * | 9 | 1.26347 | -0.000919711 | 9.12975 | 0.0113611 | 2.84207 | 0.000455326 |
| * | 10 | 1.26282 | 0.00515485 | 9.13003 | 0.0113592 | 2.81651 | 0.00045529 |
| * | 11 | 1.26113 | 0.0108381 | 9.13215 | 0.0113522 | 2.71162 | 0.000455142 |
| * | 12 | 1.25892 | 0.0129159 | 9.13903 | 0.0113371 | 2.54073 | 0.000454827 |
| * | 13 | 1.25688 | 0.011438 | 9.14155 | 0.0113285 | 2.38047 | 0.000454649 |
| * | 14 | 1.25545 | 0.00960928 | 9.14261 | 0.0113238 | 2.24223 | 0.000454549 |
| * | 15 | 1.25435 | 0.00789546 | 9.14374 | 0.01132 | 2.121 | 0.000454462 |
| * | 16 | 1.25345 | 0.00568213 | 9.14564 | 0.0113165 | 2.01433 | 0.000454388 |
| * | 17 | 1.25243 | 0.00377875 | 9.14611 | 0.0113163 | 1.92833 | 0.000454385 |
| * | 18 | 1.25004 | 0.00114052 | 9.14263 | 0.0116929 | 1.83238 | 0.000466832 |
| * | 19 | 1.565 | -0.00686022 | 9.52426 | 0.00184805 | -7.64784 | 7.7581e-05 |
| * | 20 | 1.56841 | -0.0171335 | 9.52304 | 0.00160347 | -7.50248 | 6.66046e-05 |
| * | 21 | 1.58049 | -0.0377592 | 9.52622 | 0.00162658 | -7.19283 | 6.7439e-05 |
| * | 22 | 1.60801 | -0.0409047 | 9.50223 | 0.0017007 | -6.63333 | 6.96025e-05 |
| * | 23 | 1.62184 | -0.0267856 | 9.5061 | 0.00171117 | -6.27044 | 6.98977e-05 |

Unsort

Sort (Actual)

Sort (Abs)

Operate...

Change...

Update File

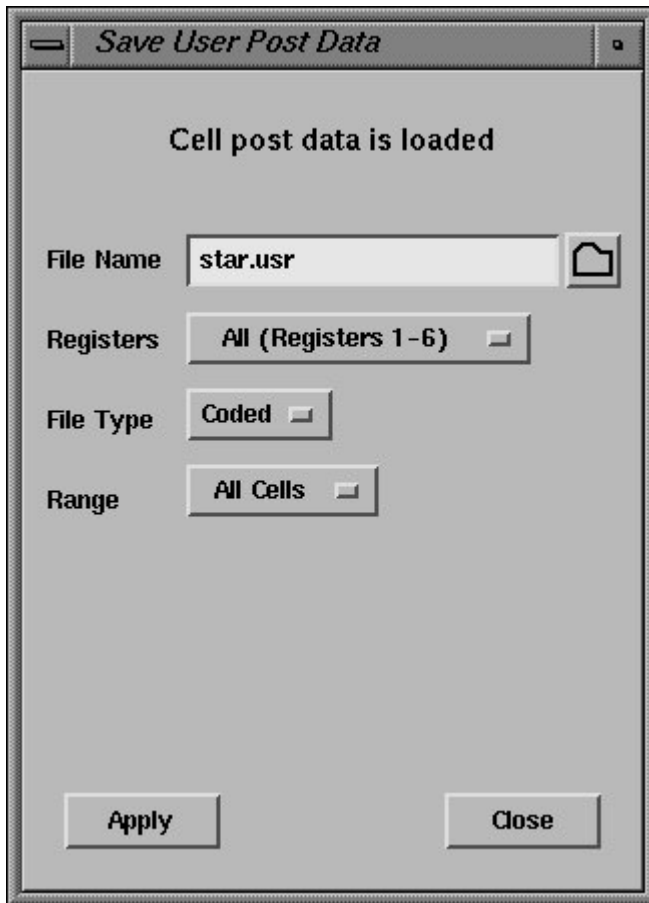
In pro-STAR window:

9. Post > save user data

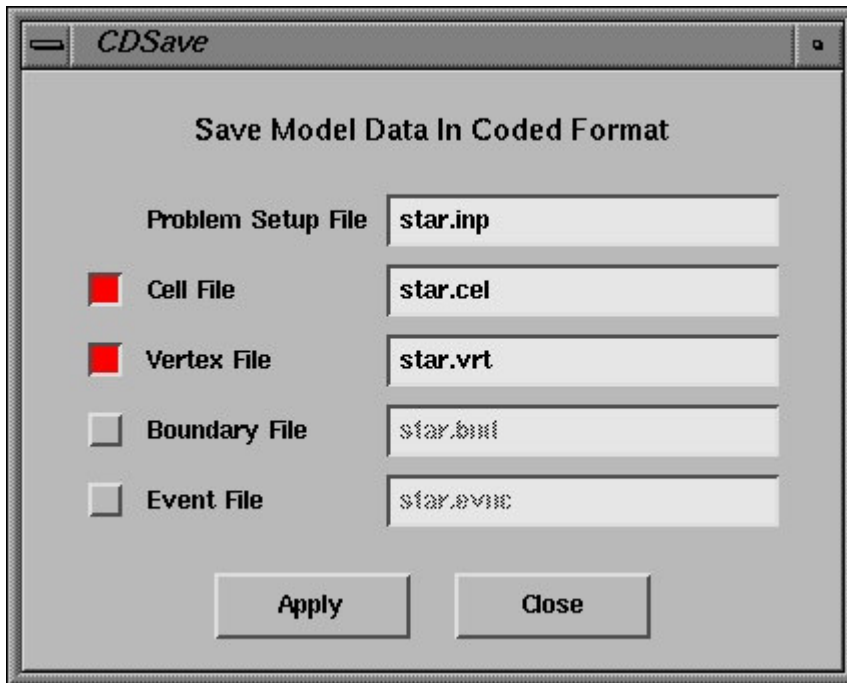
--Registers: all

--File type: coded

--Range: all vertices



13. Click "Apply"
14. Click "Close"
15. Manually close file (enter "close *.usr")
16. File > save as coded
17. Unclick boundary file



18. Click "Apply"

Note: Checked files are written out

19. Enter "close all"

You now have the geometry information and data. It is time to translate.

[Creating a parameter file for translator](#)