

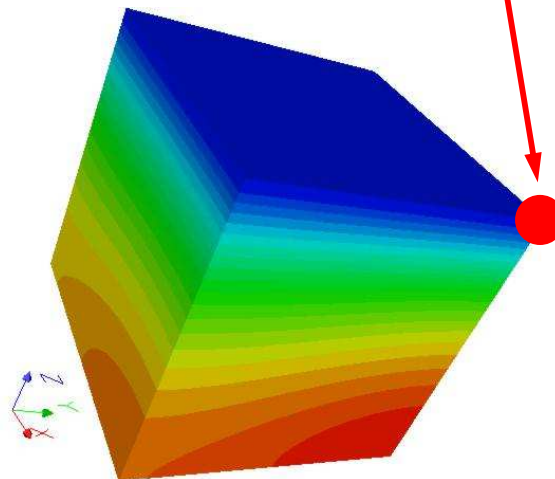
Running the Program

Running, Post Processing by ParaView

```
$> cd <$P-L1>/run
$> ./L1-sol
    1    4.504513e+00    Residual at the 1st Iteration
   75    8.377861e-09    Residual at convergence (<10-8)

   32768    9.297409e+02    Result at ●-point

$> ls test.inp
test.inp
```



UCD Format (1/2)

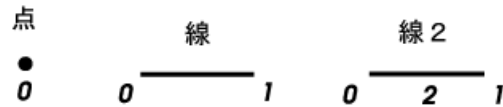
Unstructured Cell Data

要素の種類

キーワード

点

pt

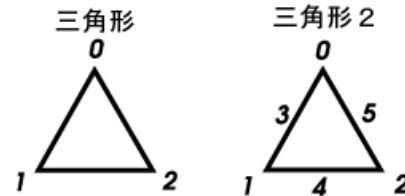


線

line

三角形

tri

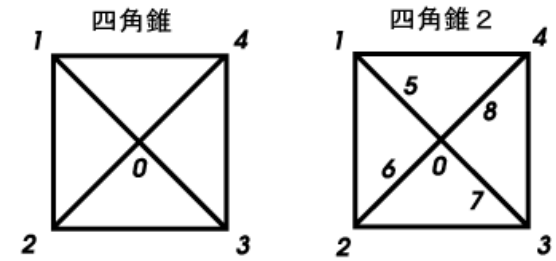


四角形

quad

四面体

tet

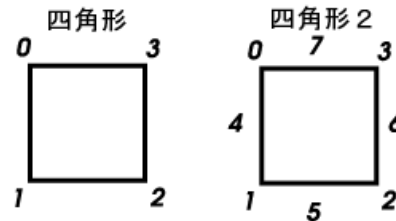


角錐

pyr

三角柱

prism

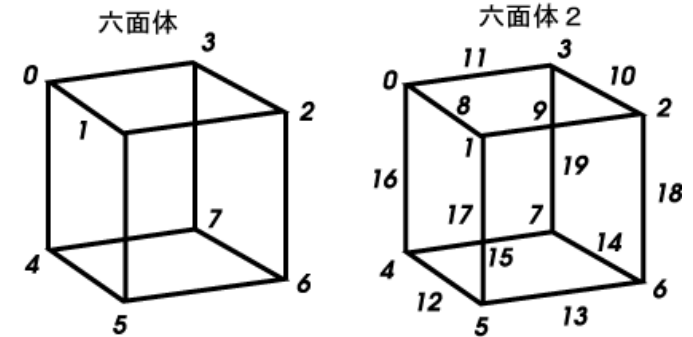


六面体

hex

二次要素

line2



線2

tri2

三角形2

quad2

四角形2

tet2

四面体2

pyr2

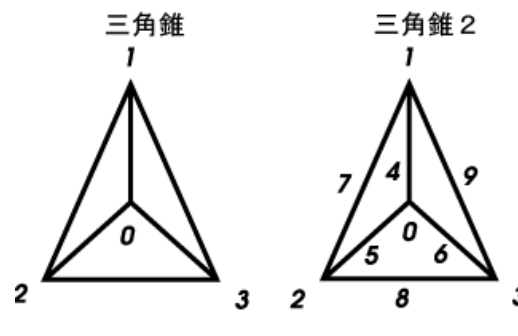
角錐2

prism2

三角柱2

hex2

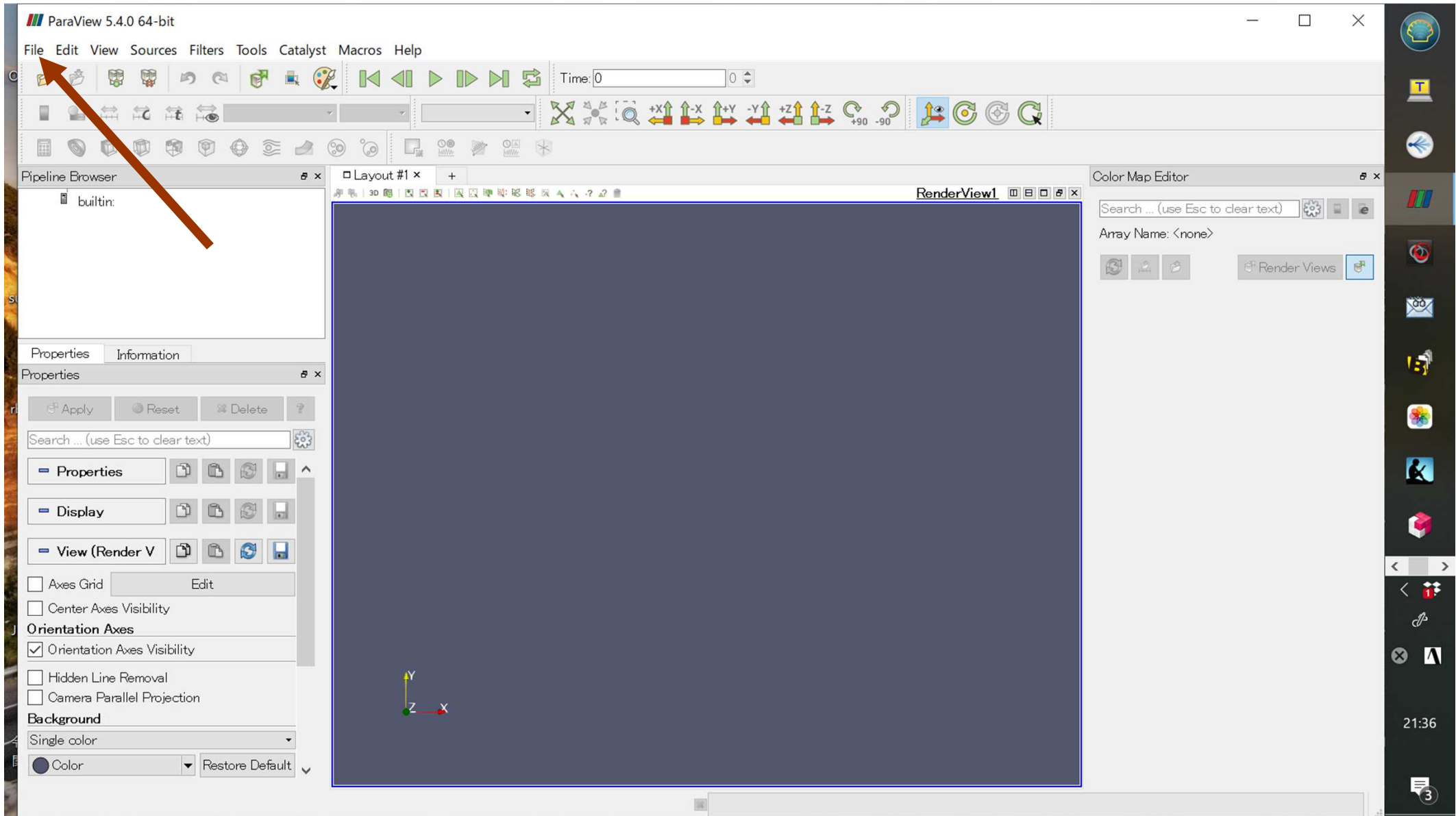
六面体2



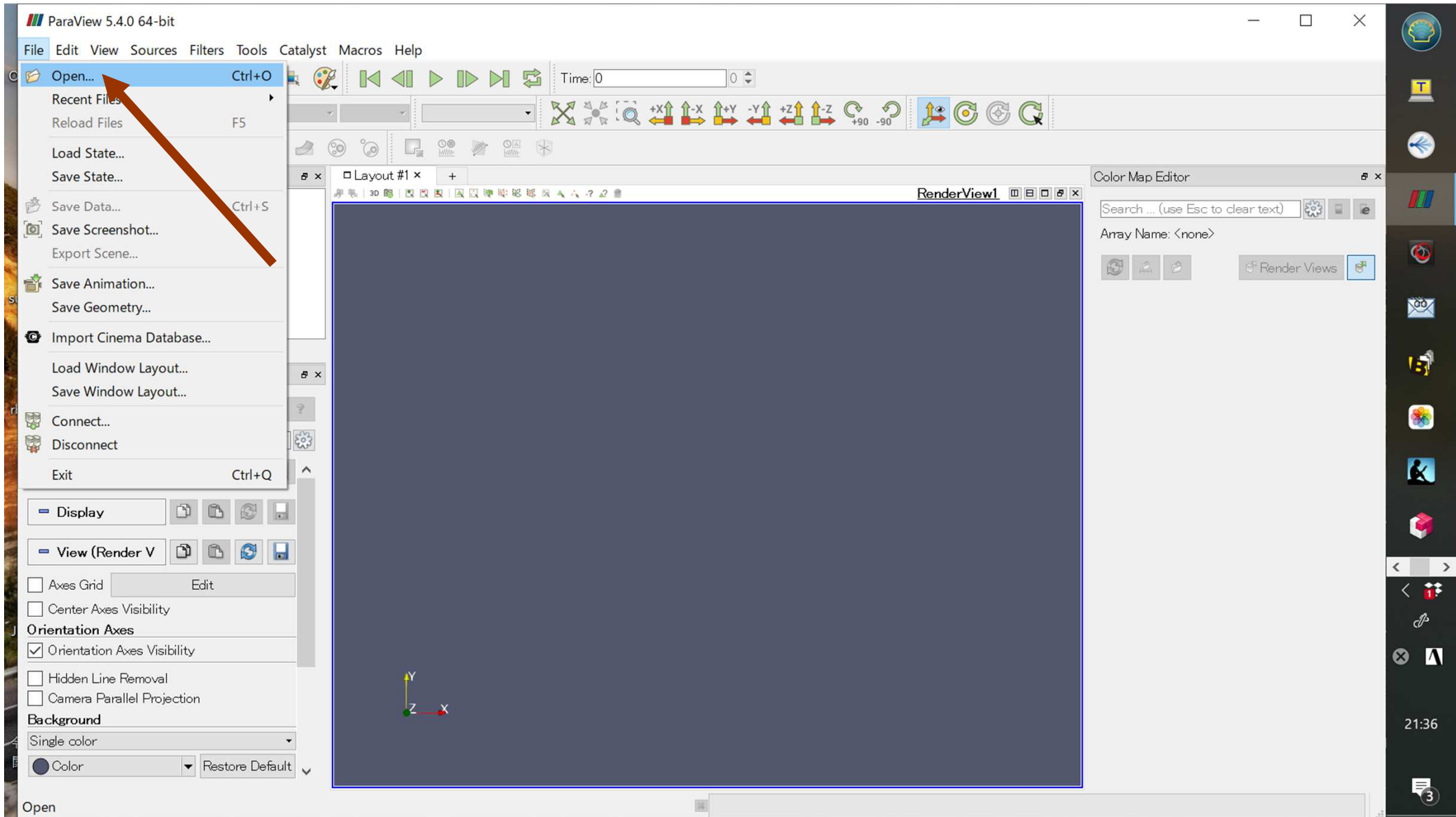
UCD Format (2/2)

- Originally for AVS, MicroAVS
- Extension of the UCD file is “inp”
- There are two types of formats. Only old type can be read by ParaView.

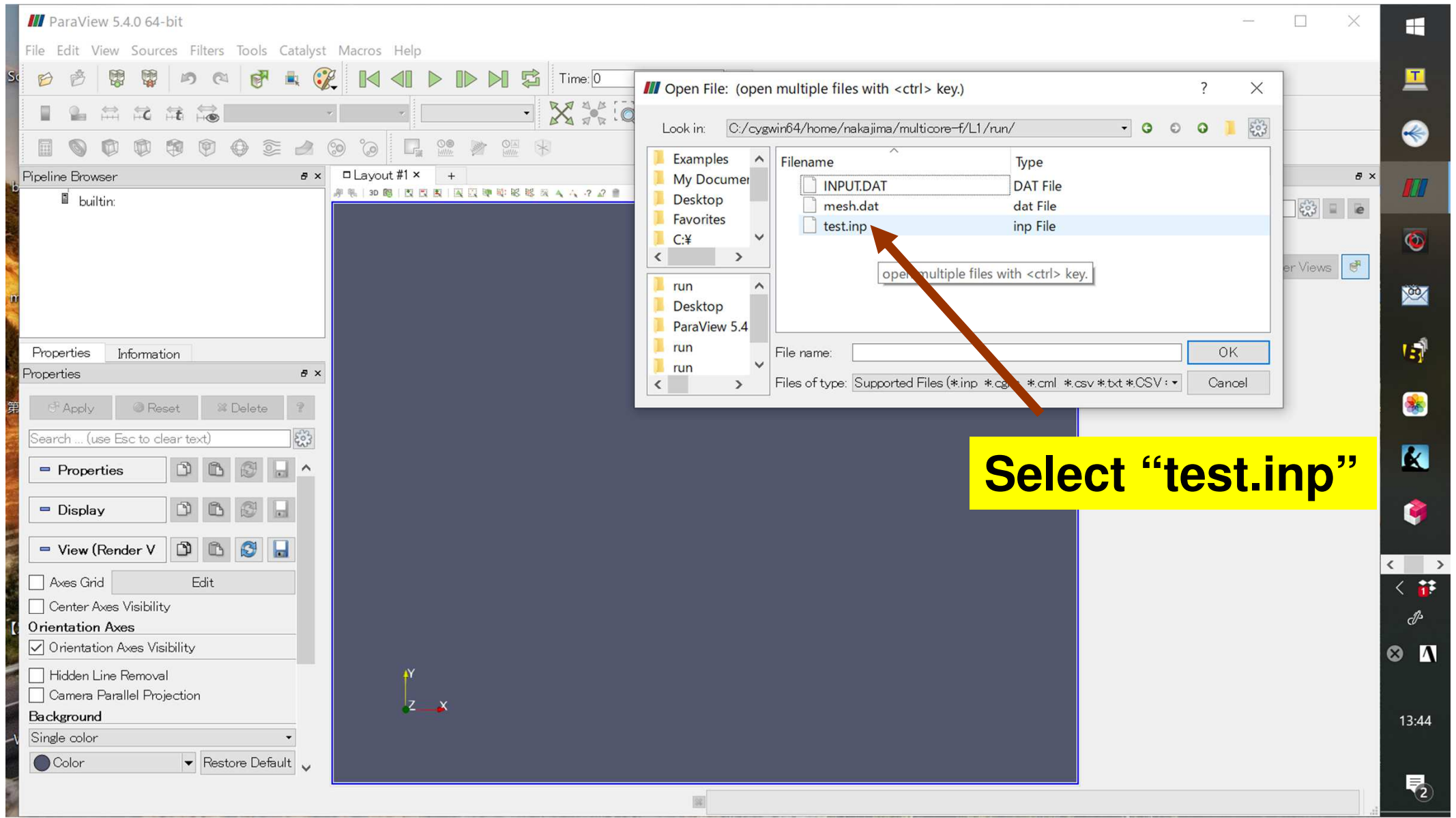
Open the UCD file (1/3)



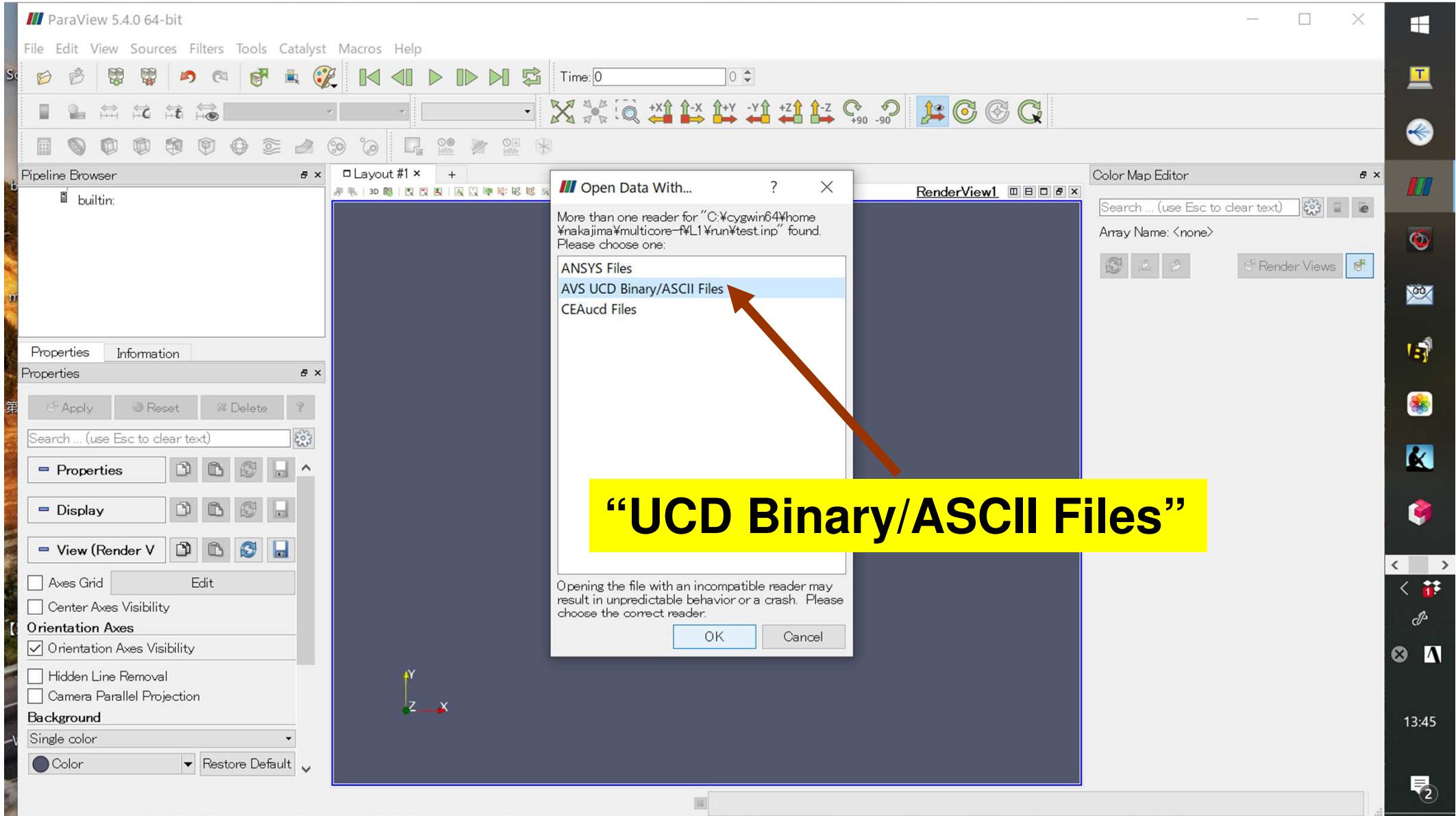
Open the UCD file (2/3)



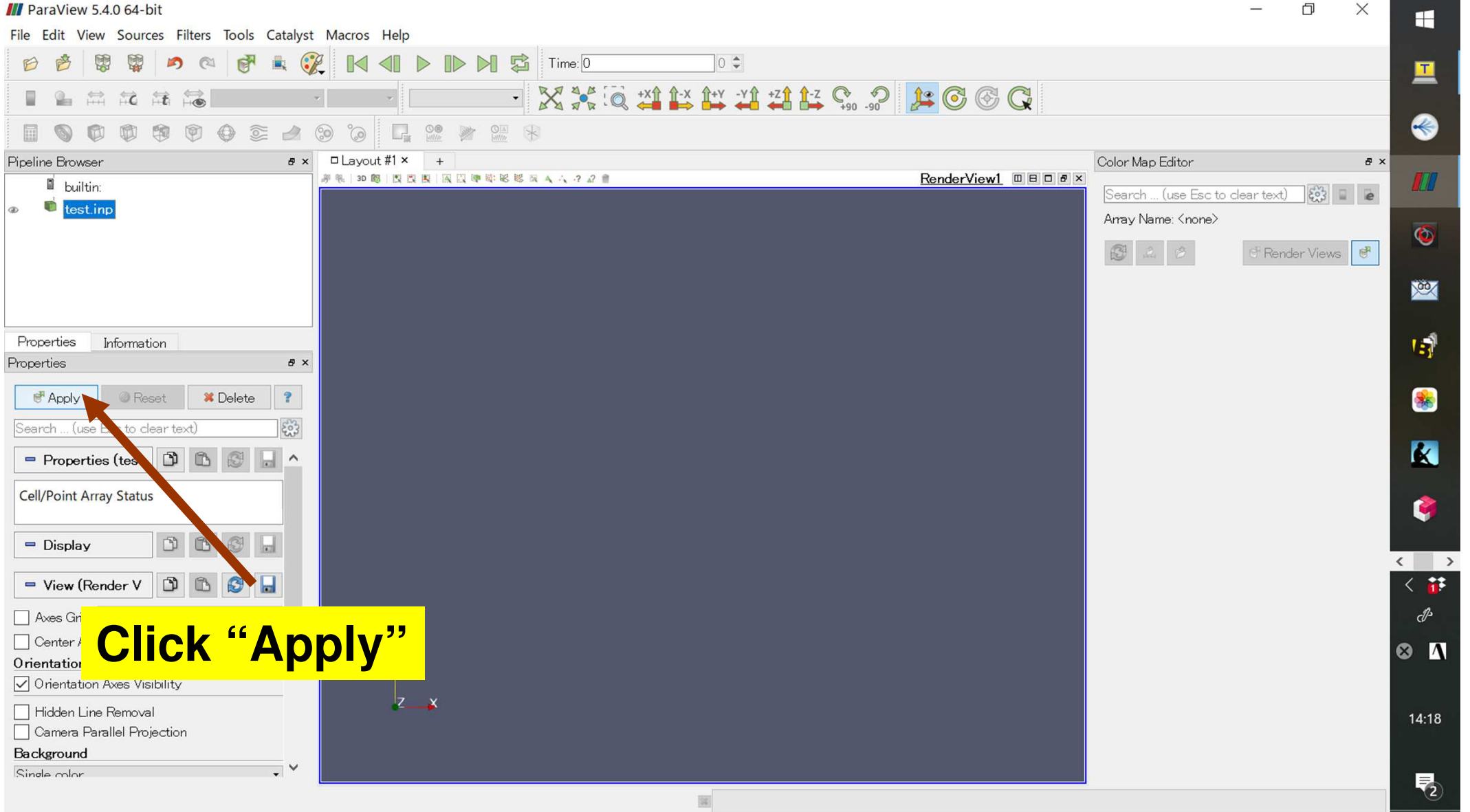
Open the UCD file (3/3)



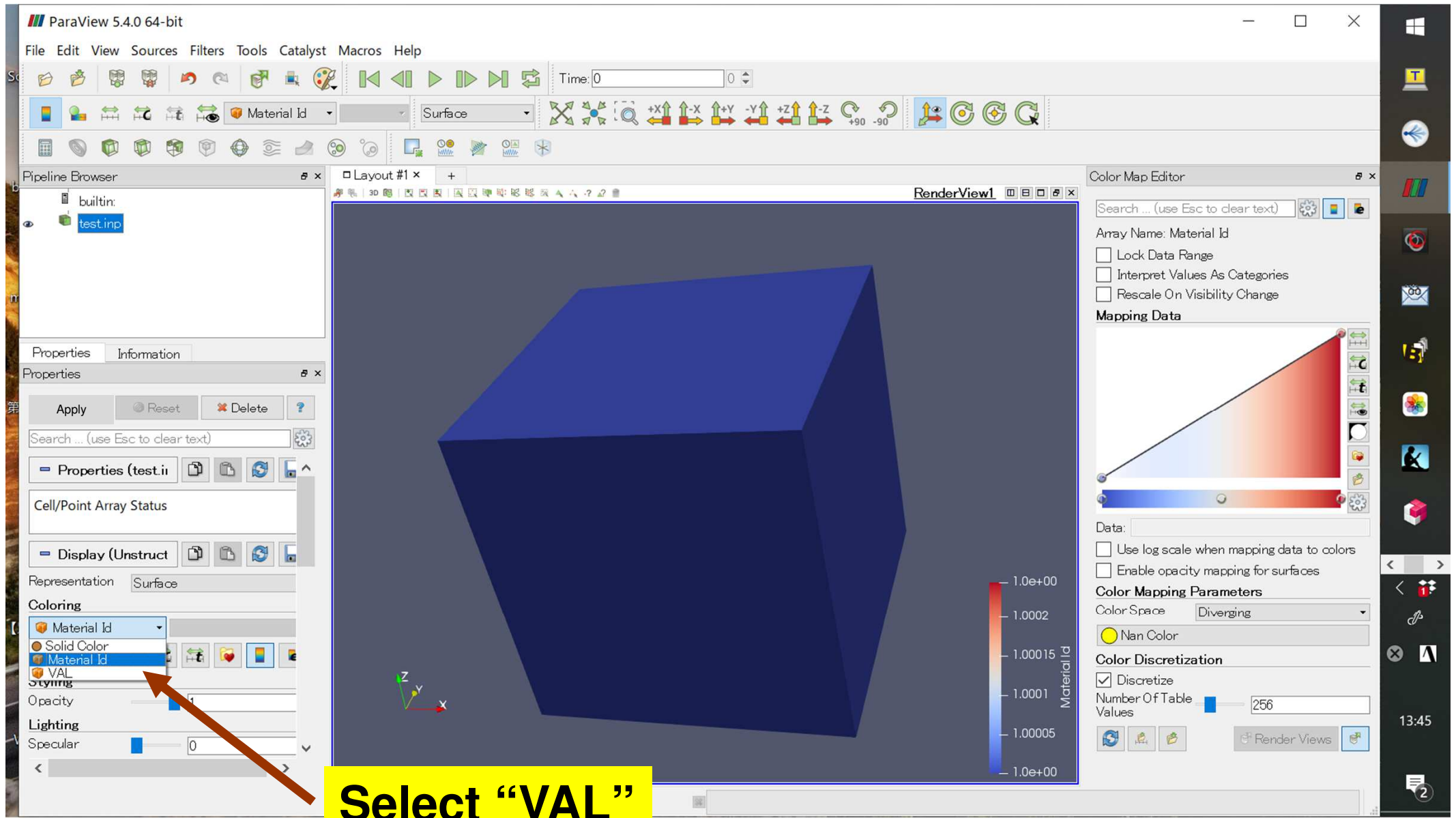
Select UCD Format



Click “Apply”

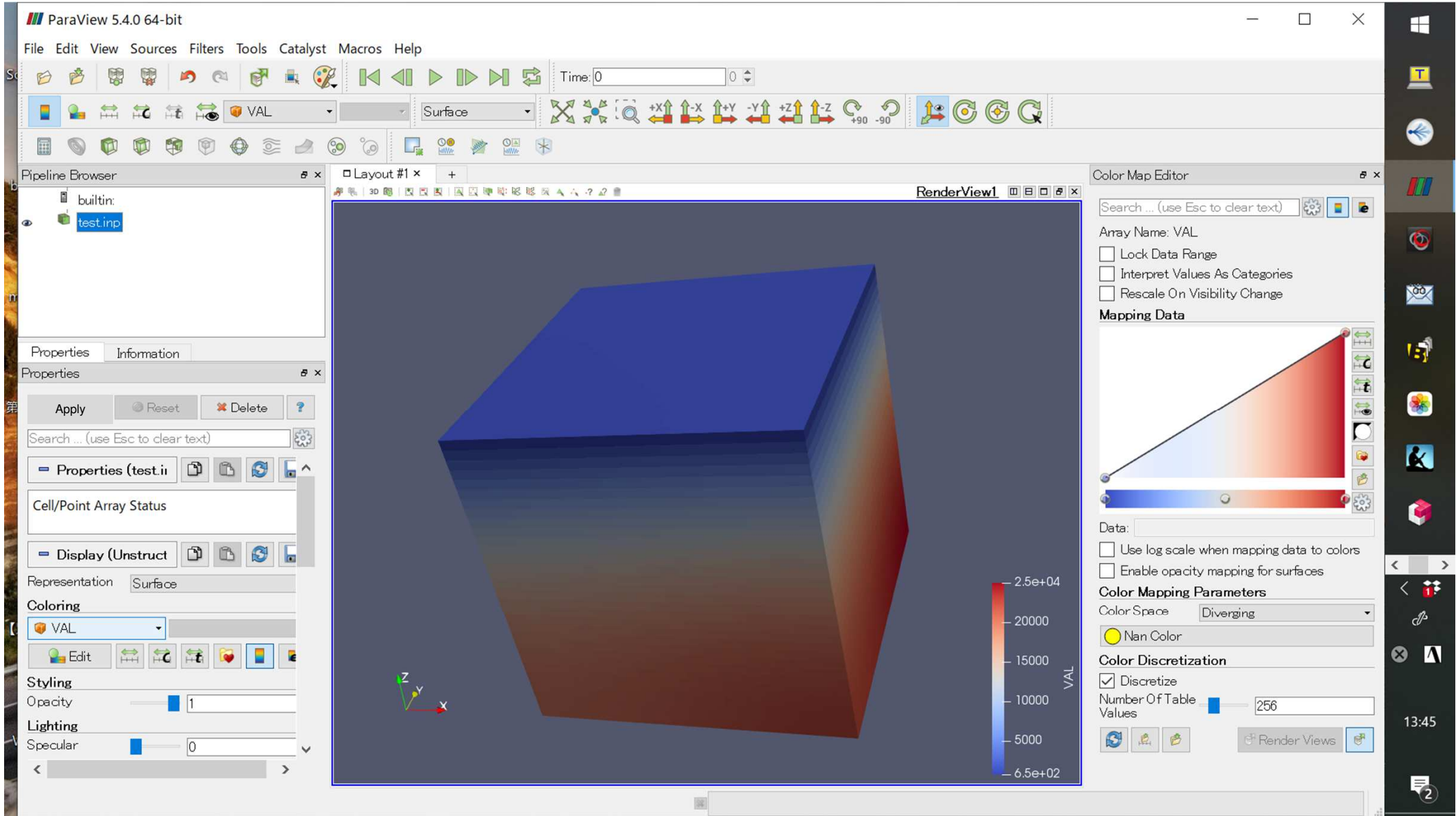


Pulldown “Coloring” Material ID -> VAL

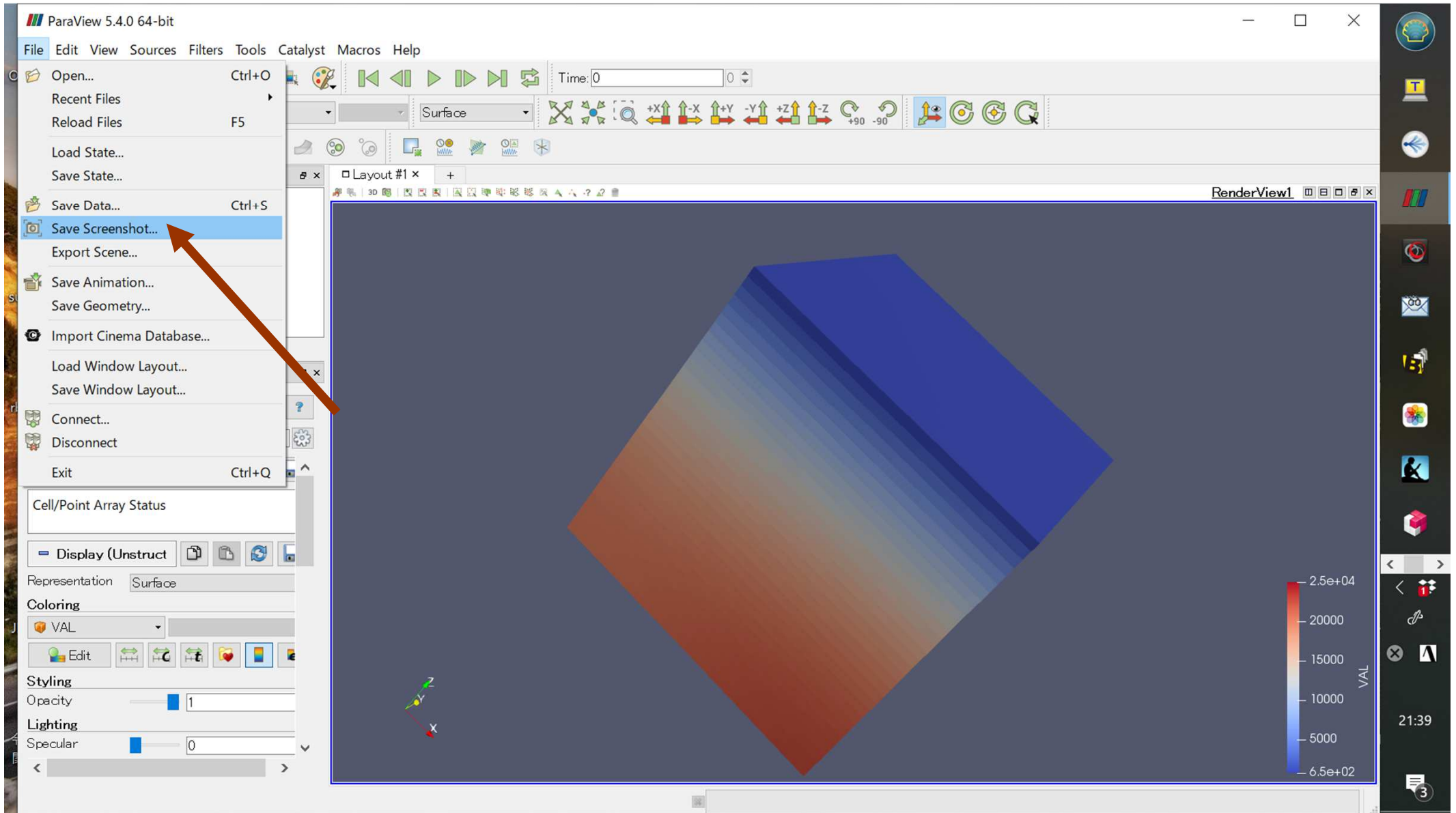


Select "VAL"

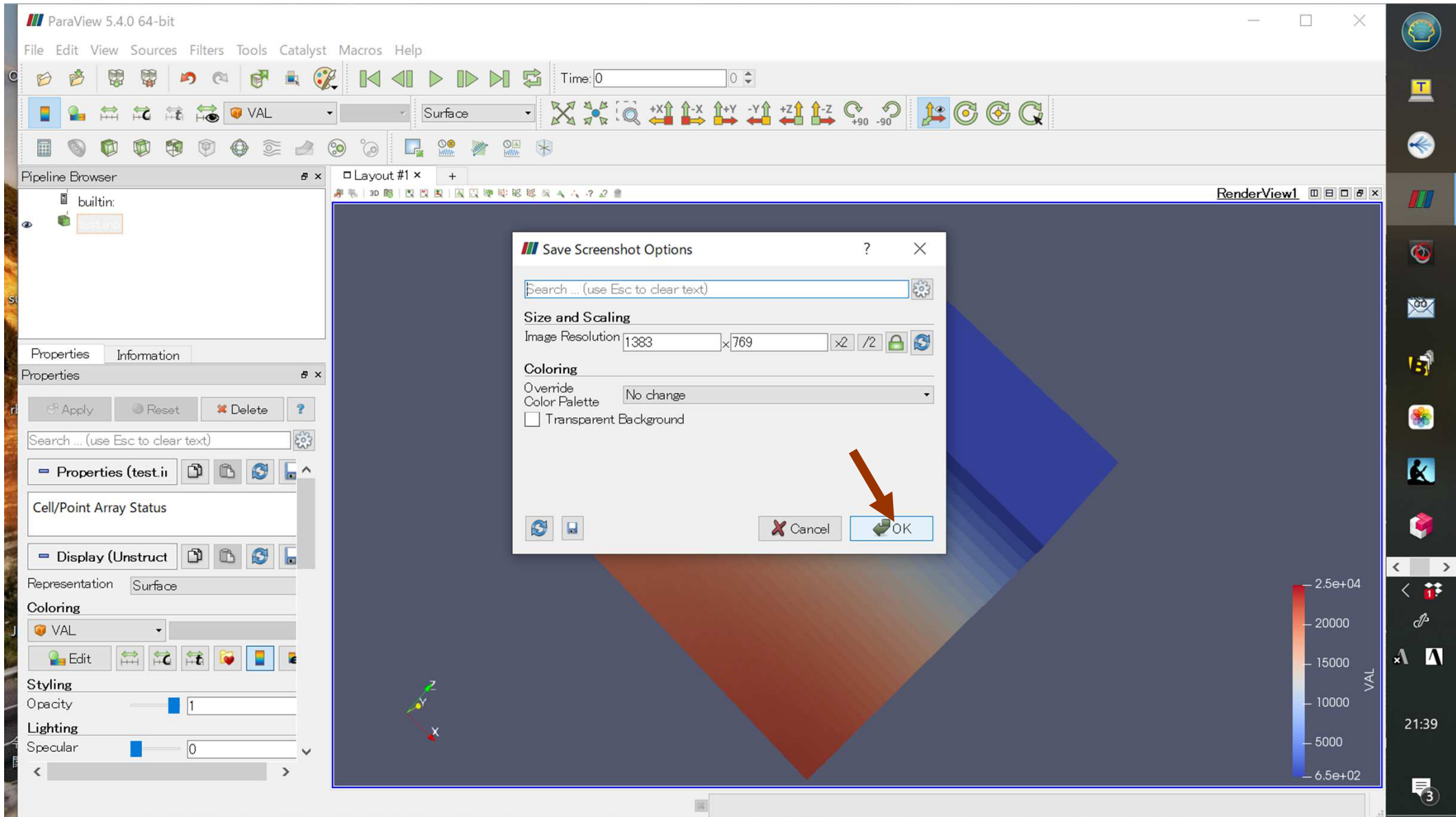
Distribution of Results



Save Screenshot (1/4)



Save Screenshot (2/4)



Save Screenshot (3/4)

ParaView 5.4.0 64-bit

File Edit View Sources Filters Tools Catalyst Macros Help

Time: 0

Surface

Pipeline Browser

Layout #1

Properties Information

Properties

Apply Reset Delete

Search ... (use Esc to clear text)

Properties (test.ii)

Cell/Point Array Status

Display (Unstruct)

Representation Surface

Coloring

VAL

Edit

Styling

Opacity 1

Lighting

Specular 0

2.5e+04

20000

15000

10000

5000

6.5e+02

VAL

Use log scale when mapping data to colors

Enable opacity mapping for surfaces

Color Mapping Parameters

Color Space Diverging

Nan Color

Color Discretization

Discretize

Number Of Table Values 256

Render Views

Save Screenshot:

Look in: C:/Program Files/ParaView 5.4.0-Qt5-OpenGL2-Windows-64b

Filename	Type
bin	Folder
data	Folder
doc	Folder
share	Folder

File name:

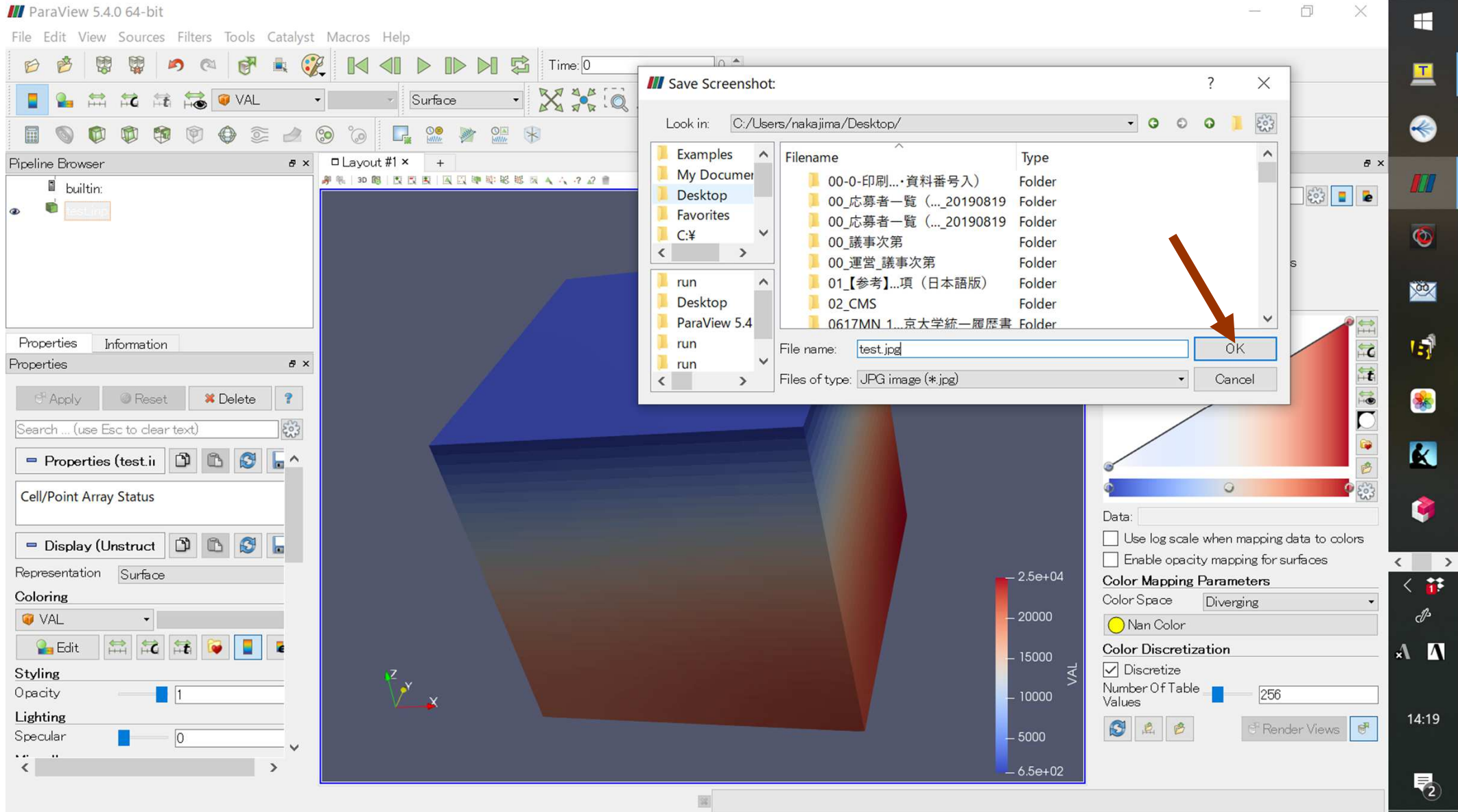
Files of type: JPG image (*.jpg)

PNG
 JPG
 TIFF
 BMP
 PPM

OK Cancel

Save Screenshot (4/4)

Name & Location of the File



Click “test.jpg” (1/2)

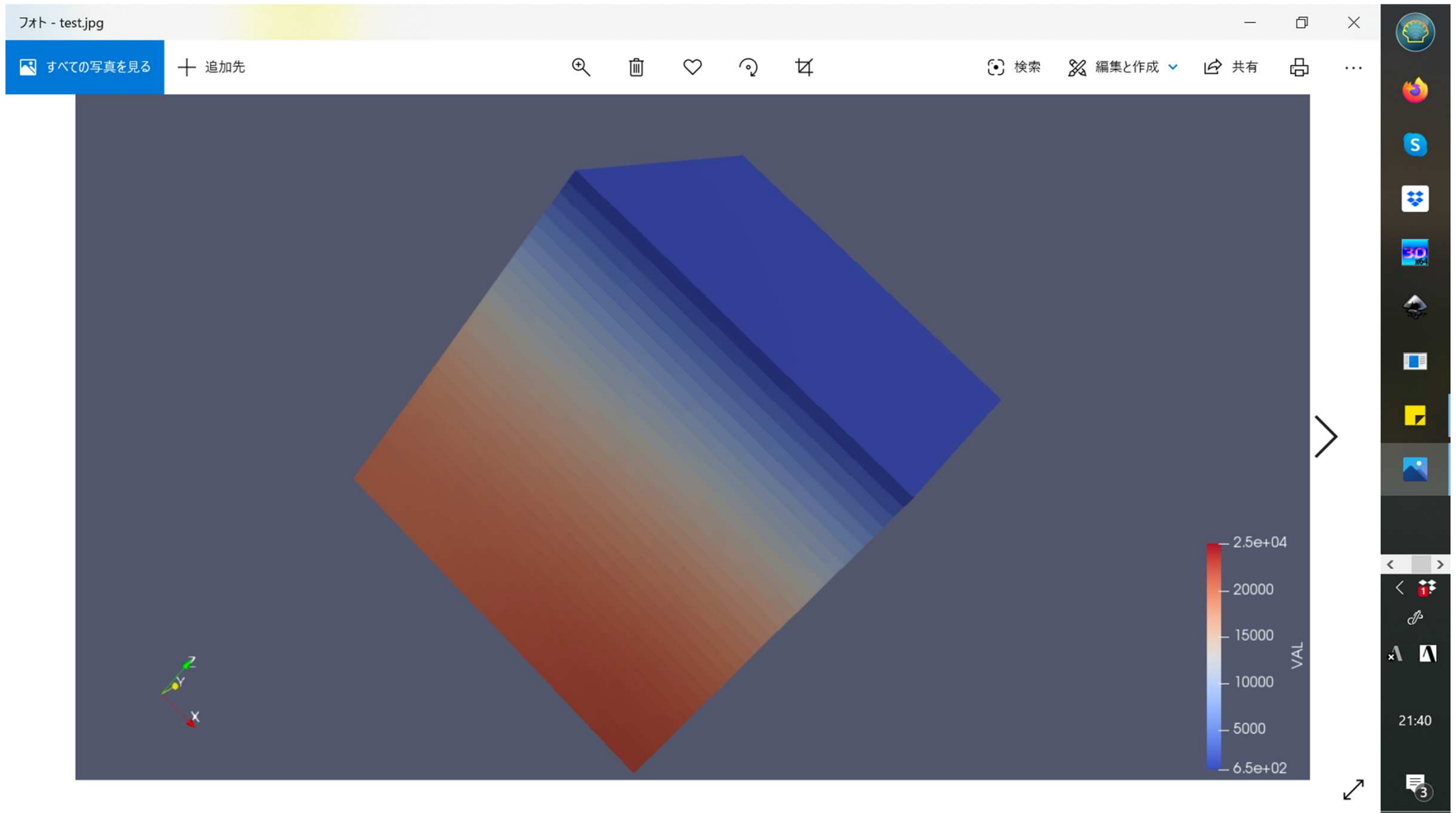
The screenshot shows a Windows File Explorer window titled "デスクトップ" (Desktop). The address bar shows the path "PC > デスクトップ". The left sidebar shows "クイック アクセス" (Quick access) with "デスクトップ" selected. The main pane displays a list of files with columns for "名前" (Name), "更新日時" (Last modified), "種類" (Type), and "サイズ" (Size). The file "test.jpg" is highlighted, and a tooltip is displayed over it with the following information:

- 項目の種類: JPG ファイル
- 大きさ: 1383 x 769
- サイズ: 97.3 KB

名前	更新日時	種類	サイズ
test.jpg	2020/05/14 21:40	JPG ファイル	98 KB
Slap	2020/05/14 9:53	ショートカット	3 KB
Blu	2020/05/13 15:54	ショートカット	3 KB
Ma	2020/05/13 9:20	JPG ファイル	111 KB
Zoom	2020/05/12 18:03	ショートカット	2 KB
Cisco Webex Meetings	2020/05/12 12:54	ショートカット	3 KB
2019w_KN_class.pdf	2020/05/07 20:51	Adobe Acrobat Docu...	87 KB
20200502.pptx	2020/05/06 9:17	Microsoft PowerPoin...	146 KB
NakajimaKengo.pdf	2020/04/30 19:31	Adobe Acrobat Docu...	58 KB
cube-1.tar	2020/04/28 17:21	TAR ファイル	10,970 KB
geofem-djds.tar	2020/04/28 16:43	TAR ファイル	31,370 KB
中島研吾日程調整.xlsx	2020/04/24 13:15	Microsoft Excel ワーク...	11 KB
p.docx	2020/04/22 16:07	Microsoft Word 文書	12 KB
2020S1S2融合情報輪講.pdf	2020/04/16 10:25	Adobe Acrobat Docu...	203 KB
中島02プロジェクト年表201905-rev1-1.pptx	2020/04/15 11:30	Microsoft PowerPoin...	66 KB
202003_ITC値.xlsm	2020/04/12 11:42	Microsoft Excel マクロ...	199 KB
BDEC20200410.pdf	2020/04/10 14:59	Adobe Acrobat Docu...	1,423 KB
Nakajima繰越申請書.xlsx	2020/03/27 16:44	Microsoft Excel ワーク...	17 KB
Mckernel-OBCX-20200306.pptx	2020/03/25 14:39	Microsoft PowerPoin...	591 KB
印刷.pdf	2020/03/25 11:56	Adobe Acrobat Docu...	94 KB
a.ps	2020/03/24 15:35	PostScript	34 KB
a.pdf	2020/03/23 12:36	Adobe Acrobat Docu...	36,461 KB
電気系2020 (R2)年度教務日程表 (配布用) .xlsx	2020/03/23 10:39	Microsoft Excel ワーク...	168 KB
★最終版) 2019年度第12回計算科学研究センタ...	2020/03/16 13:08	Adobe Acrobat Docu...	14,943 KB
(最終版) 理事連絡会議資料.pdf	2020/03/16 13:06	Adobe Acrobat Docu...	195 KB
20200312_hpci_used0.pdf	2020/03/13 8:35	Adobe Acrobat Docu...	139 KB
事前打合せ資料) 理事連絡会議.pdf	2020/03/11 10:32	Adobe Acrobat Docu...	97 KB

403 個の項目

Click “test.jpg” (2/2)



Edit Color Map (1/5)

Click “Choose Preset”

The screenshot shows the ParaView 5.4.0 64-bit interface. The main window displays a 3D model of a complex object. The 'Coloring' section in the 'Properties' panel is active, showing the 'VAL' color map. A red arrow points to the 'Choose Preset' icon (a color wheel) in the 'Coloring' section. The 'Choose Preset' dialog box is open, showing a list of color maps and a search bar. The 'Coloring' section also shows the 'Edit' icon (a paintbrush) and the 'Choose Preset' icon. The 'Color Map Editor' panel on the right shows the 'VAL' color map with a gradient from blue to red. The 'Coloring' section also shows the 'Edit' icon (a paintbrush) and the 'Choose Preset' icon (a color wheel). The 'Color Map Editor' panel on the right shows the 'VAL' color map with a gradient from blue to red. The 'Coloring' section also shows the 'Edit' icon (a paintbrush) and the 'Choose Preset' icon (a color wheel).

Click “Choose Preset”

Edit Color Map (2/5)

“Rainbow Desaturated”

The screenshot displays the ParaView 5.4.0 64-bit software interface. The main window shows a 3D visualization of a surface with a color map. A 'Choose Preset' dialog box is open in the center, listing various color maps. The 'Rainbow Desaturated' preset is selected, and the 'Apply' button is highlighted. Two orange arrows point to the 'Rainbow Desaturated' preset and the 'Apply' button. The 'Color Map Editor' panel on the right shows the 'Array Name: VAL' and various mapping options. The 'Color Mapping Parameters' section shows 'Color Space: Diverging' and 'Color Discretization' checked with 'Number Of Table Values' set to 256. The 'Data' section shows a range from -6.5×10^2 to 2.5×10^4 . The 'Properties' panel on the left shows the 'Coloring' section with 'VAL' selected and 'Edit' button visible.

Edit Color Map (3/5)

“Rainbow Desaturated”

ParaView 5.4.0 64-bit

File Edit View Sources Filters Tools Catalyst Macros Help

Time: 0

VAL Surface

Pipeline Browser

- builtin:
- test.inp

Properties Information

Properties

Apply Reset Delete ?

Search ... (use Esc to clear text)

Properties (test.in)

Cell/Point Array Status

Display (Unstruct)

Representation Surface

Coloring

VAL

Edit

Styling

Opacity 1

Lighting

Specular 0

RenderView1

Color Map Editor

Search ... (use Esc to clear text)

Array Name: VAL

- Lock Data Range
- Interpret Values As Categories
- Rescale On Visibility Change

Mapping Data

Data:

- Use log scale when mapping data to colors
- Enable opacity mapping for surfaces

Color Mapping Parameters

Color Space RGB

Nan Color

Color Discretization

- Discretize
- Number Of Table Values 256

Render Views

21:43

3

Edit Color Map (4/5)

“Blue to Red Rainbow”

The screenshot displays the ParaView 5.4.0 64-bit interface. The main window shows a 3D visualization of a surface with a color map. A 'Choose Preset' dialog box is open, showing a list of color maps. The 'Blue to Red Ra...' preset is selected. The 'Color Map Editor' panel is also visible, showing the 'VAL' array name and various mapping parameters. The 'Color Map Editor' panel includes a search bar, a color map visualization, and several checkboxes for 'Lock Data Range', 'Interpret Values As Categories', and 'Rescale On Visibility Change'. The 'Color Mapping Parameters' section shows 'Color Space' set to 'HSV' and 'Nan Color' selected. The 'Color Discretization' section has 'Discretize' checked and 'Number Of Table Values' set to 256. The 'RenderView1' window shows a 3D view of the surface with a color map. The 'Properties' panel on the left shows the 'Coloring' section with 'VAL' selected and the 'Display (Unstruct)' section with 'Surface' selected. The 'Styling' section shows 'Opacity' set to 1 and 'Specular' set to 0. The 'Lighting' section shows 'Specular' set to 0. The 'Pipeline Browser' shows a 'builtin' object with a 'test.ii' file. The 'Layout #1' window shows a 3D view of the surface with a color map. The 'Color Map Editor' panel is also visible, showing the 'VAL' array name and various mapping parameters. The 'Color Map Editor' panel includes a search bar, a color map visualization, and several checkboxes for 'Lock Data Range', 'Interpret Values As Categories', and 'Rescale On Visibility Change'. The 'Color Mapping Parameters' section shows 'Color Space' set to 'HSV' and 'Nan Color' selected. The 'Color Discretization' section has 'Discretize' checked and 'Number Of Table Values' set to 256. The 'RenderView1' window shows a 3D view of the surface with a color map. The 'Properties' panel on the left shows the 'Coloring' section with 'VAL' selected and the 'Display (Unstruct)' section with 'Surface' selected. The 'Styling' section shows 'Opacity' set to 1 and 'Specular' set to 0. The 'Lighting' section shows 'Specular' set to 0. The 'Pipeline Browser' shows a 'builtin' object with a 'test.ii' file. The 'Layout #1' window shows a 3D view of the surface with a color map.

Edit Color Map (5/5)

“Blue to Red Rainbow”

ParaView 5.4.0 64-bit

File Edit View Sources Filters Tools Catalyst Macros Help

Time: 0

VAL Surface

Pipeline Browser

- builtin:
- test.inp

Properties Information

Properties

Apply Reset Delete ?

Search ... (use Esc to clear text)

Properties (test.ii)

Cell/Point Array Status

Display (Unstruct)

Representation Surface

Coloring

VAL

Edit

Styling

Opacity 1

Lighting

Specular 0

RenderView1

Color Map Editor

Search ... (use Esc to clear text)

Array Name: VAL

- Lock Data Range
- Interpret Values As Categories
- Rescale On Visibility Change

Mapping Data

Data:

- Use log scale when mapping data to colors
- Enable opacity mapping for surfaces

Color Mapping Parameters

Color Space HSV

Nan Color

Color Discretization

- Discretize
- Number Of Table Values 256

Render Views

21:44

3