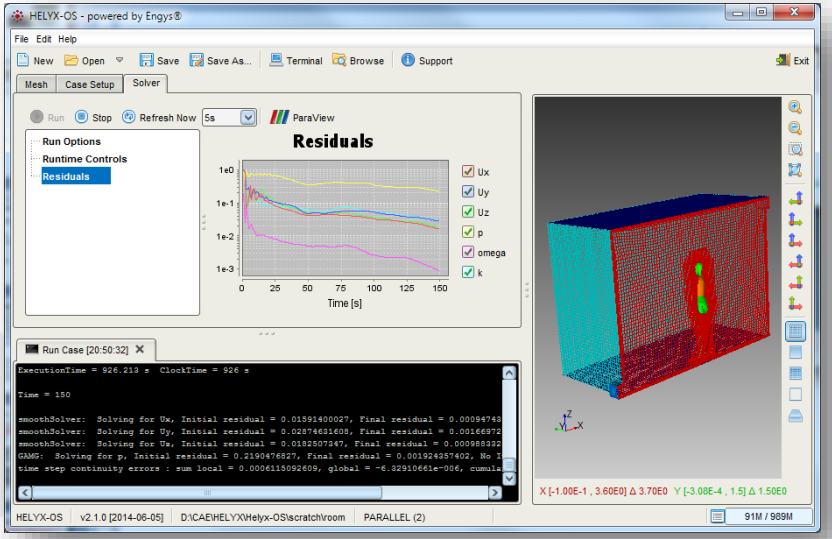
HELYX-OS

OpenFOAM®用オープンソースGUI



2014/11/14

@オープンCAE学会

株式会社CAEソリューションズ

PLM事業部　吉野孝

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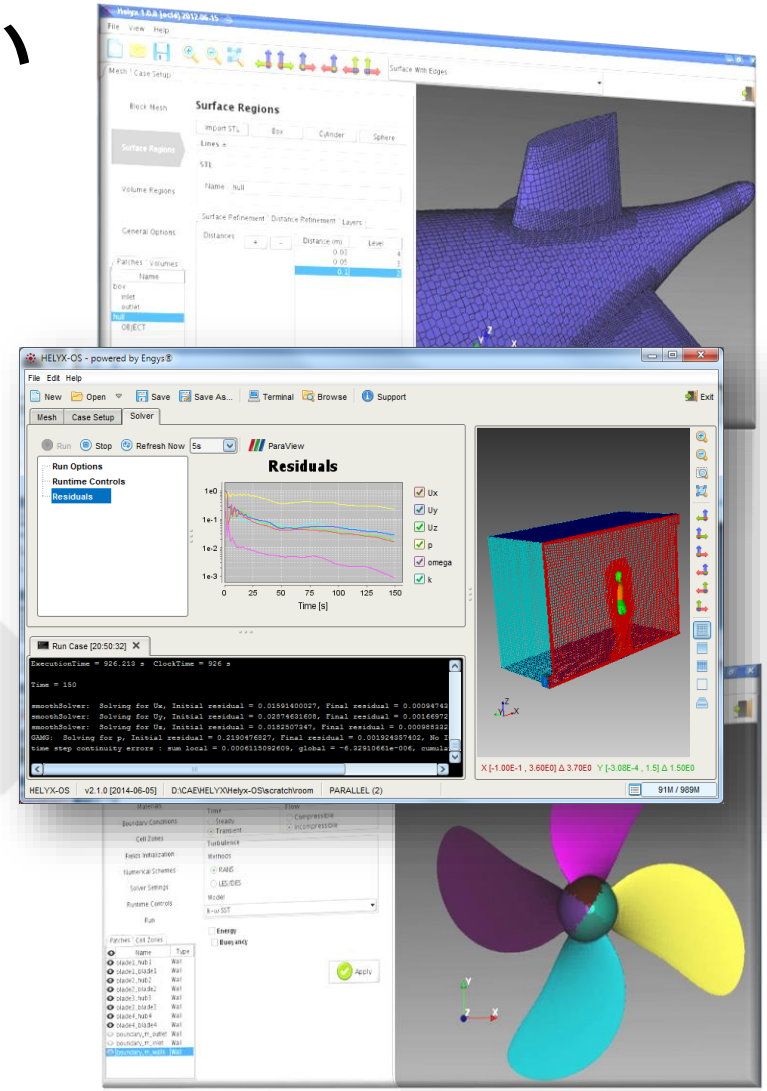
HelyX OS 紹介

- OpenFOAM v2.3.x用の使い易いオープンソースGUI
- 英国Engys社が開発・提供 (Java + VTK)
- SourceForgeから無料でダウンロード可
- 累計ダウンロード数

  52,199

  (2014/11/6現在)



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HelyX OS | 機能

- OpenFOAM®ファイルの読み書き
- 幾何形状およびメッシュの表示
- Mesh タブ → snappyHexMeshの設定
- Setup タブ → controls *system* と *constant* filesの設定
- Solver タブ → 実行と収束モニタ
- 使用可能ソルバ
  - 単相非圧縮性流れ + MRF + 多孔質
  - 単相圧縮性流れ + MRF + 多孔質
  - 単相浮力流れ
  - 多相 VOF
- GUIからのメッシュ生成および解析実行

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ダウンロードサイト

Helyx-OS

An Open Source GUI for OpenFOAM® by Engys

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2,137 Downloads (This Week)

Last Update: 2014-07-22

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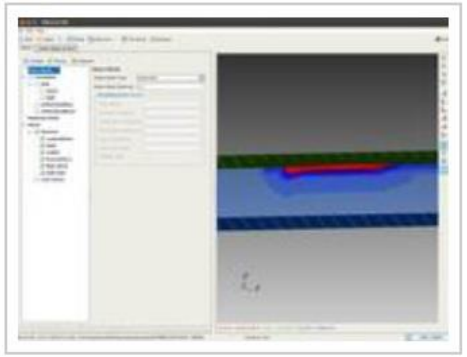
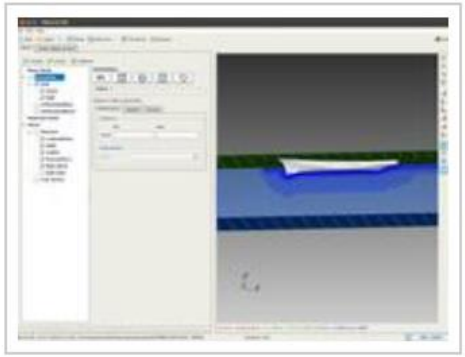


Description

バージョン履歴

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2.1.1	2014-07-22		195
2.0.0	2014-07-02		24
2.1.0	2014-07-02		1
2.0.1	2014-07-02		1
1.x.x	2014-07-02		1

Totals: 5 Items

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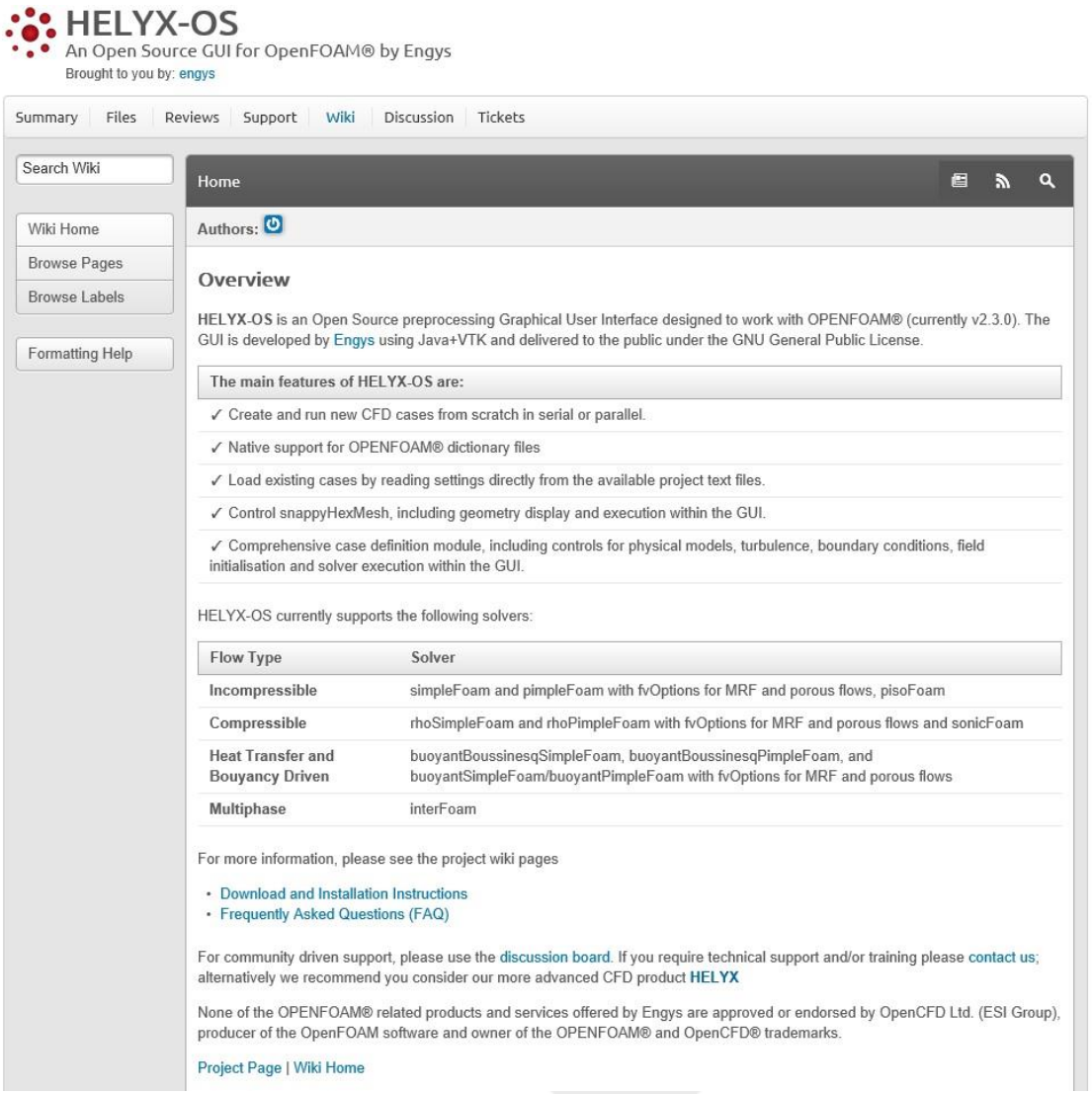
Wiki



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Overview

HELYX-OS is an Open Source preprocessing Graphical User Interface designed to work with OPENFOAM® (currently v2.3.0). The GUI is developed by Engys using Java+VTK and delivered to the public under the GNU General Public License.

The main features of HELYX-OS are:

- ✓ Create and run new CFD cases from scratch in serial or parallel.
- ✓ Native support for OPENFOAM® dictionary files
- ✓ Load existing cases by reading settings directly from the available project text files.
- ✓ Control snappyHexMesh, including geometry display and execution within the GUI.
- ✓ Comprehensive case definition module, including controls for physical models, turbulence, boundary conditions, field initialisation and solver execution within the GUI.

HELYX-OS currently supports the following solvers:

Flow Type	Solver
Incompressible	simpleFoam and pimpleFoam with fvOptions for MRF and porous flows, pisoFoam
Compressible	rhoSimpleFoam and rhoPimpleFoam with fvOptions for MRF and porous flows and sonicFoam
Heat Transfer and Bouyancy Driven	buoyantBoussinesqSimpleFoam, buoyantBoussinesqPimpleFoam, and buoyantSimpleFoam/buoyantPimpleFoam with fvOptions for MRF and porous flows
Multiphase	interFoam

For more information, please see the project wiki pages

- Download and Installation Instructions
- Frequently Asked Questions (FAQ)

For community driven support, please use the discussion board. If you require technical support and/or training please contact us; alternatively we recommend you consider our more advanced CFD product **HELYX**

None of the OPENFOAM® related products and services offered by Engys are approved or endorsed by OpenCFD Ltd. (ESI Group), producer of the OpenFOAM software and owner of the OPENFOAM® and OpenCFD® trademarks.

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2014年ダウンロード件数

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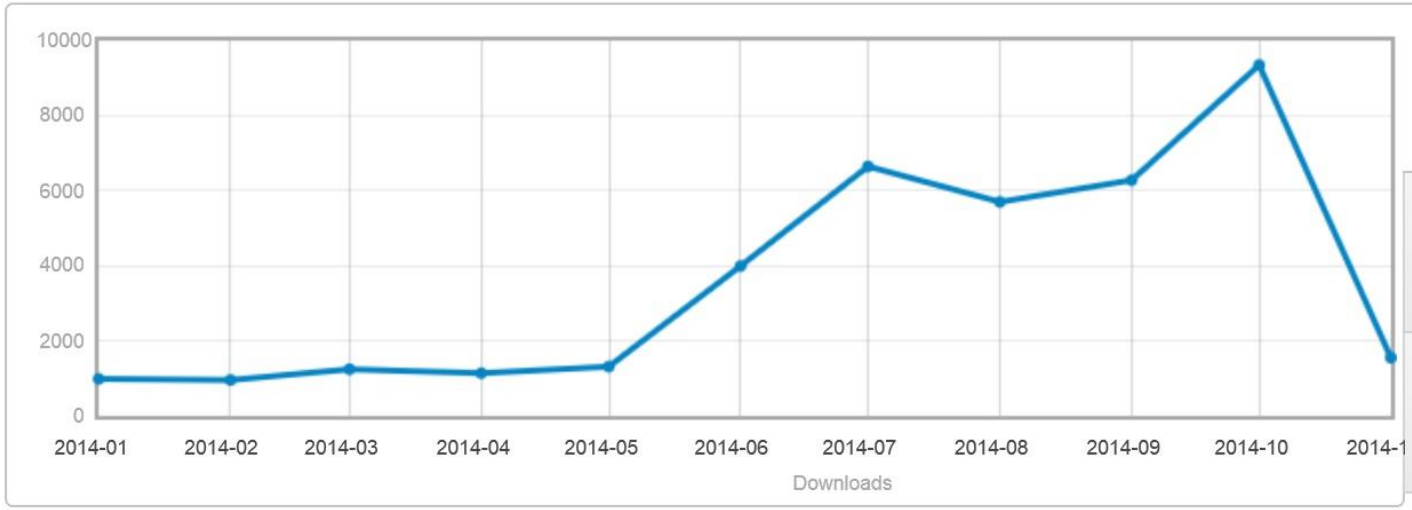
Home (Change File)

Date Range: 2014-01-01 to 2014-11-06



DOWNLOADS

39,155

In the selected date range

TOP COUNTRY

Italy

17% of downloaders

TOP OS

Other

78% of downloaders

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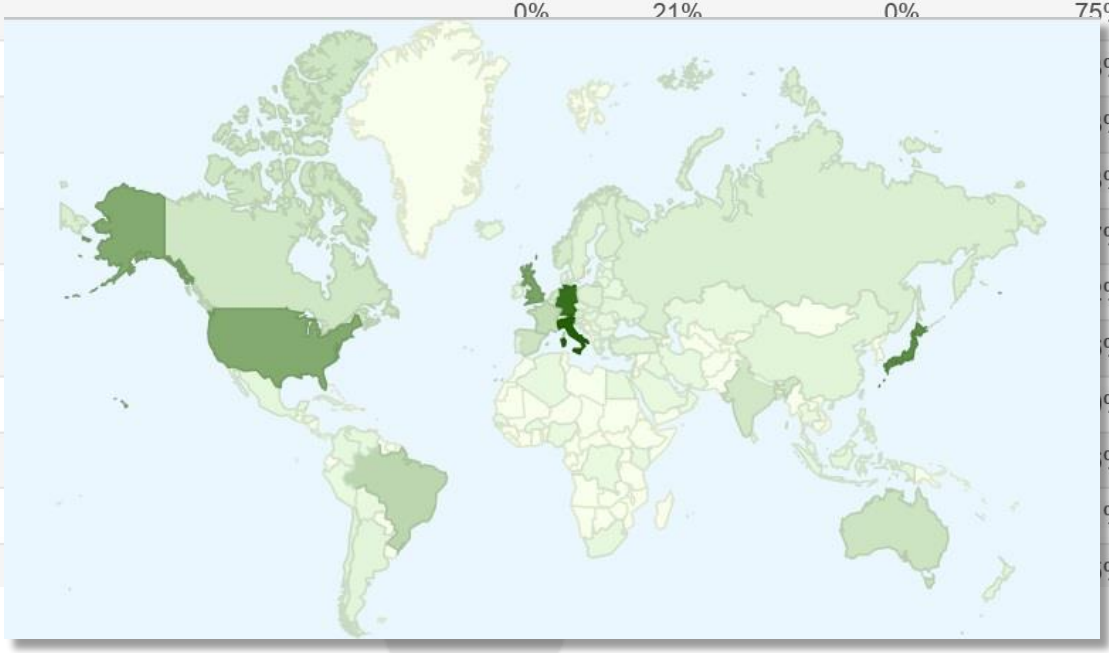
2014年 国別ダウンロード数

	Country	Android	Linux	Macintosh	Unknown	Windows	Total
1.	Italy	0%	7%	0%	90%	3%	6,838
2.	Germany	0%	14%	0%	80%	6%	6,091
3.	Japan	0%	9%	0%	82%	9%	4,725
4.	United Kingdom	0%	9%	1%	86%	4%	3,682
5.	United States	0%	17%	1%	74%	8%	3,494
6.	Brazil	0%	21%	0%	75%	4%	1,531
7.	France				%	7%	1,293
8.	Australia				%	3%	976
9.	Spain				%	11%	953
10.	Canada				%	9%	834
11.	India				%	18%	809
12.	Norway				%	11%	596
13.	Singapore				%	9%	530
14.	Russia				%	16%	458
15.	Austria				%	6%	458
16.	Netherlands				%	16%	437



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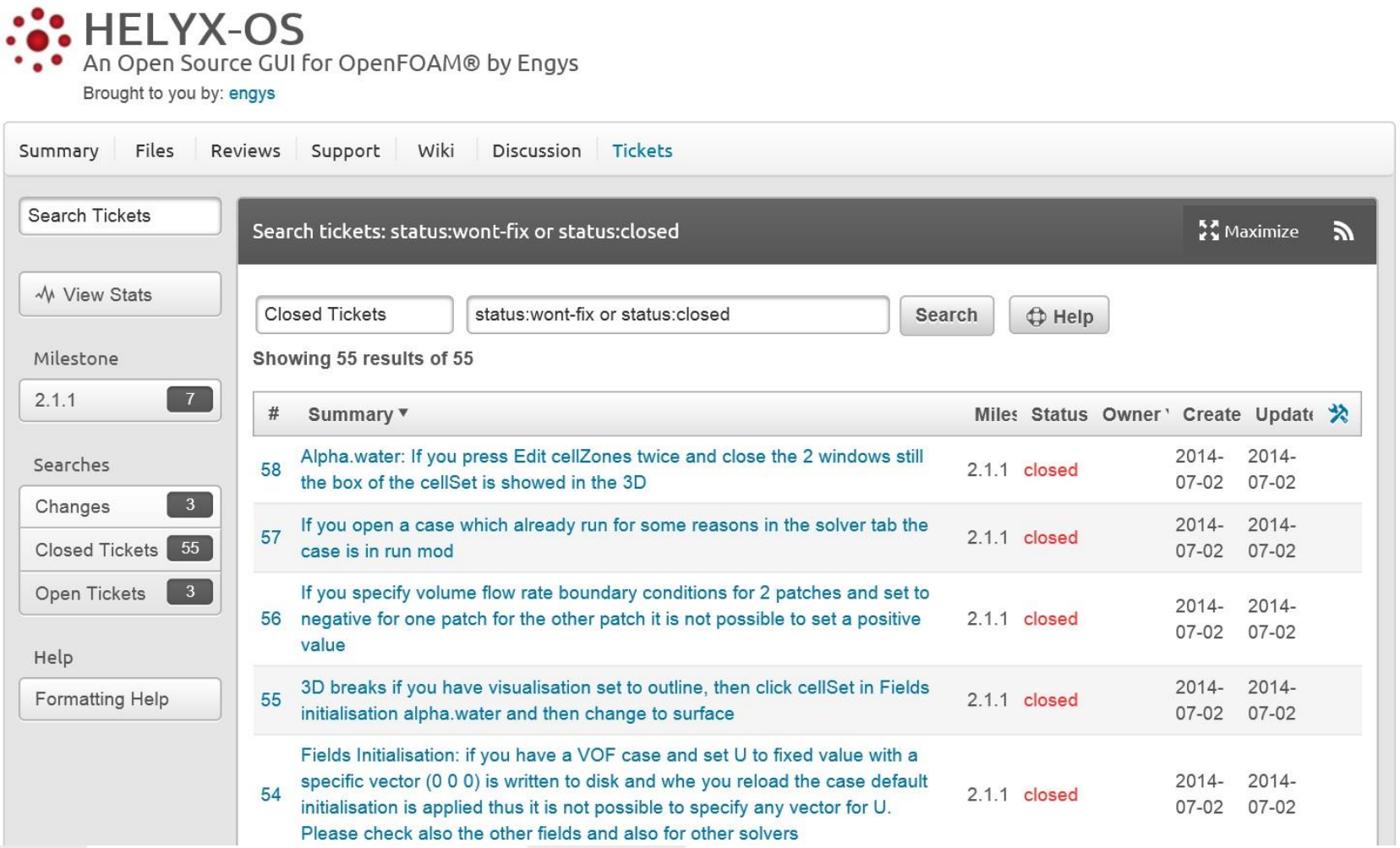
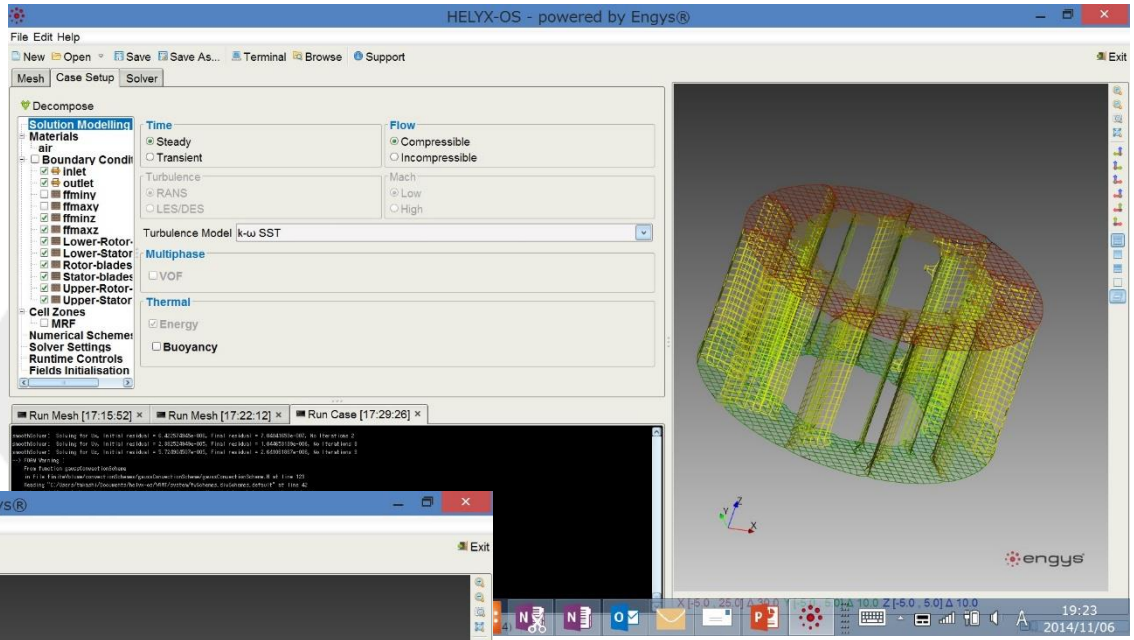
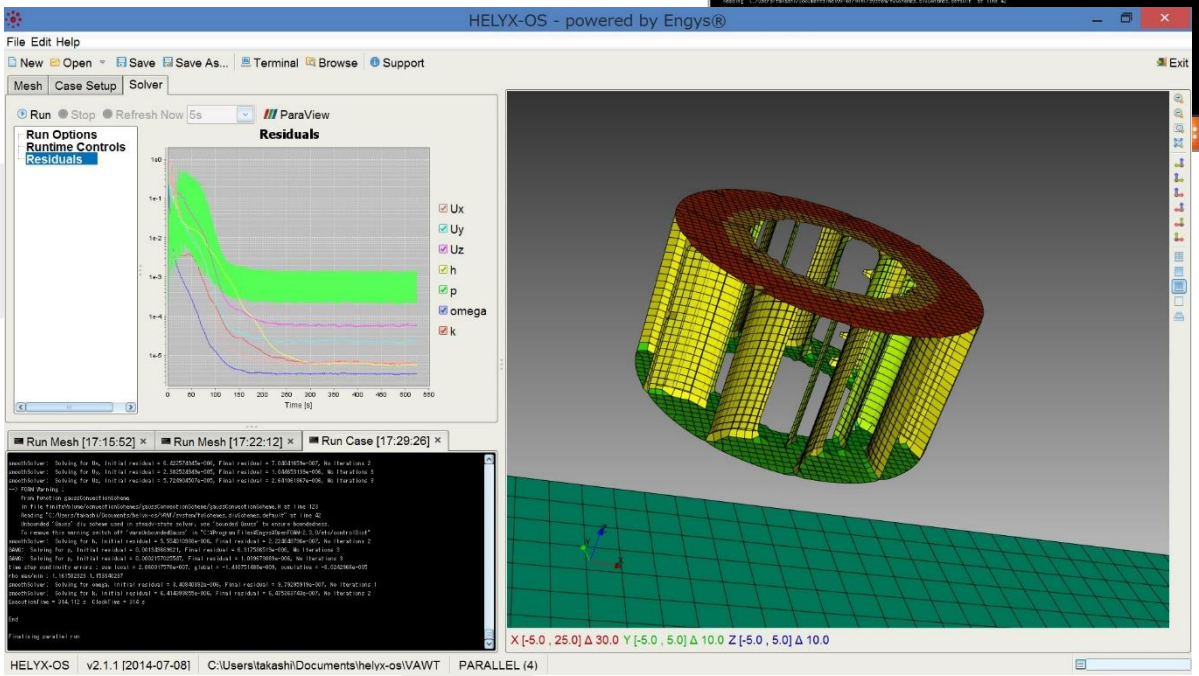
バグリスト



サンプルケース Vertical Axis Wind Turbine





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OpenFOAM®開発に携わったメンバーが作成したGUI
snappyHexMesh, LES-breakup-VOF, CAA, ・・・
オープンソースベースのアプリ開発とコンサルサービス経験
社会貢献とビジネスバランス
サードパーティソフトの商品化と普及
Adjoint optimization, Coupled solver, Hydro, PEM
企業とのアプリ・研究開発経験
くるま、船舶、航空宇宙、・・・

Helyxの良さは何処にあるのでしょうか？