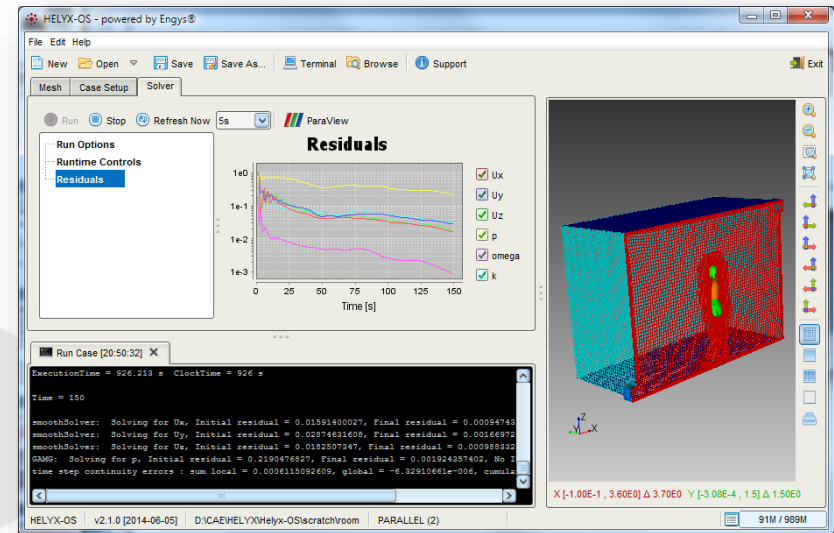


# HelyX<sup>OS</sup>

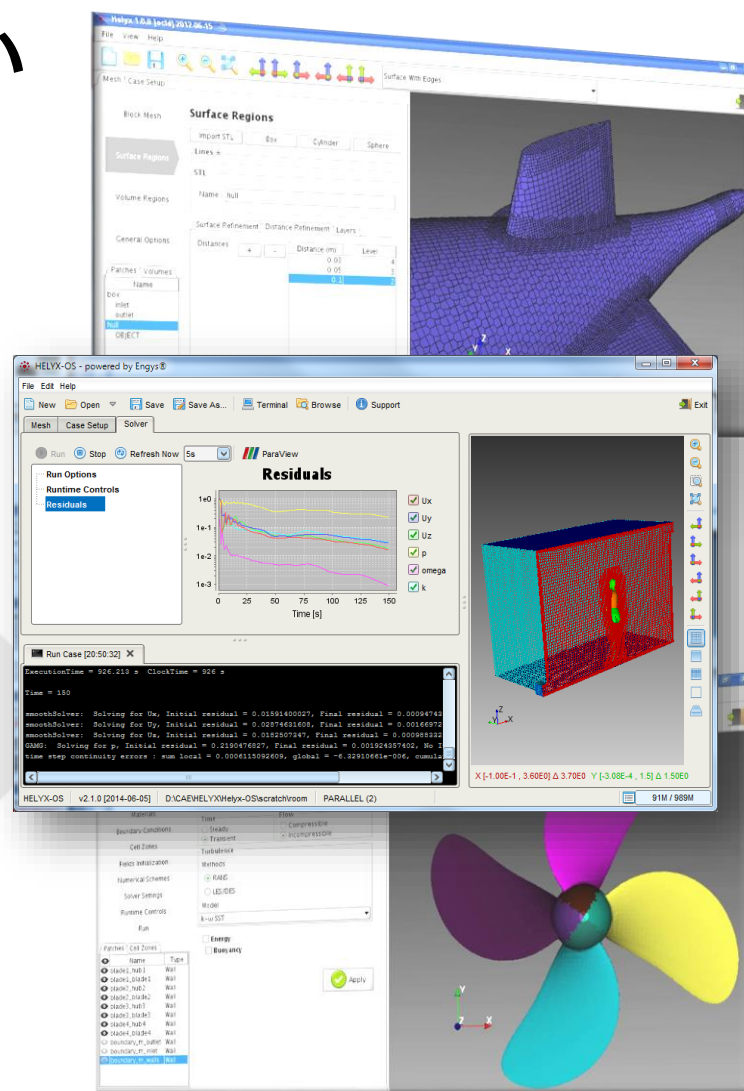
## HELIX-OS OpenFOAM®用オープンソースGUI

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



# 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)



- OpenFOAM<sup>®</sup>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

# ダウンロードサイト



## Helyx-OS

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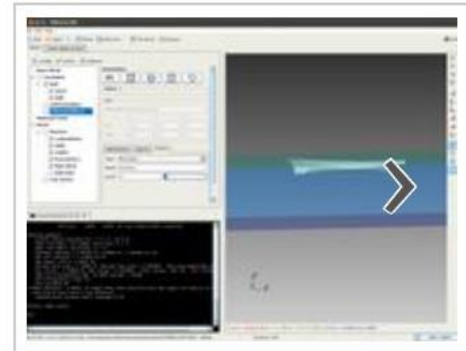
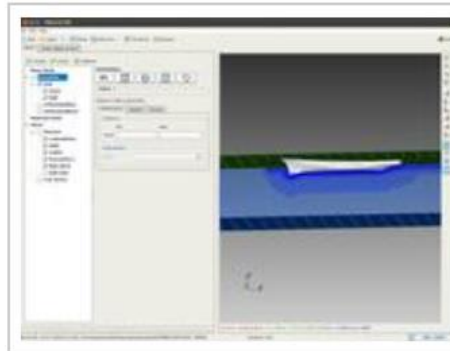
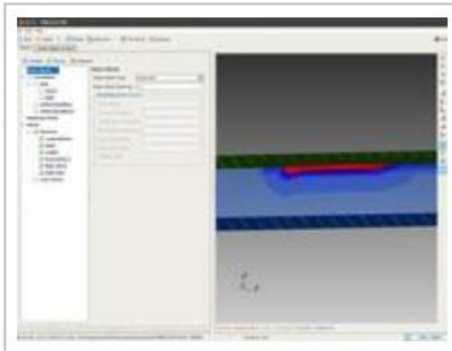
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## Description

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 <a href="#">2.0.0</a>	2014-07-02		24 
 <a href="#">2.1.0</a>	2014-07-02		1 
 <a href="#">2.0.1</a>	2014-07-02		1 
 <a href="#">1.x.x</a>	2014-07-02		1 

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Authors:

### 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.

[Project Page](#) | [Wiki Home](#)

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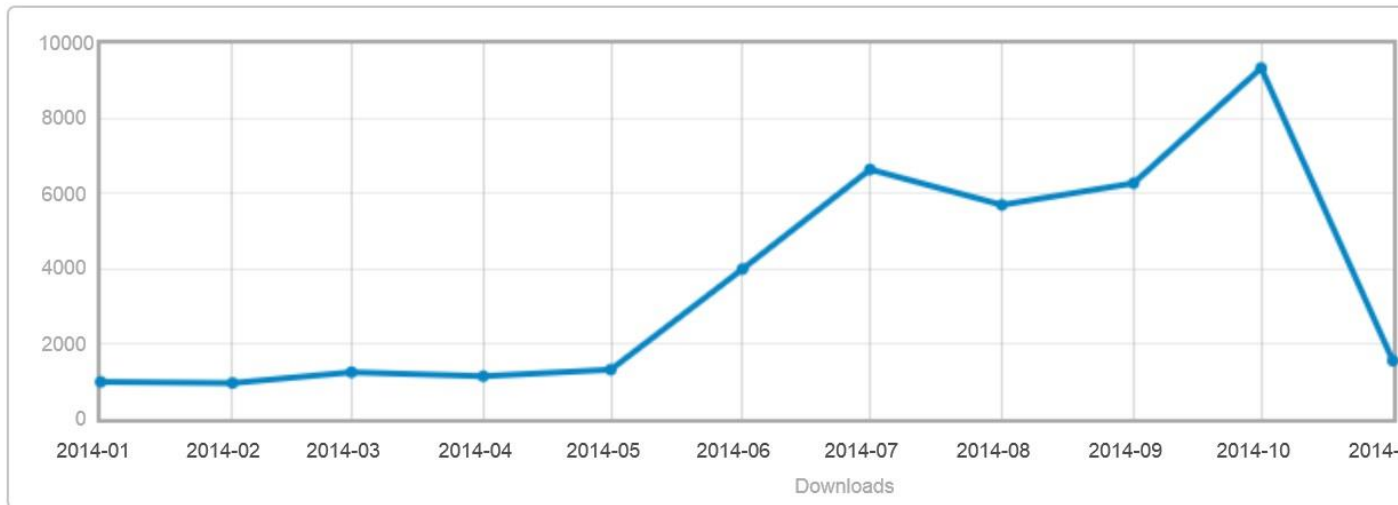


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Date Range: 2014-01-01 to 2014-11-06



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## TOP OS

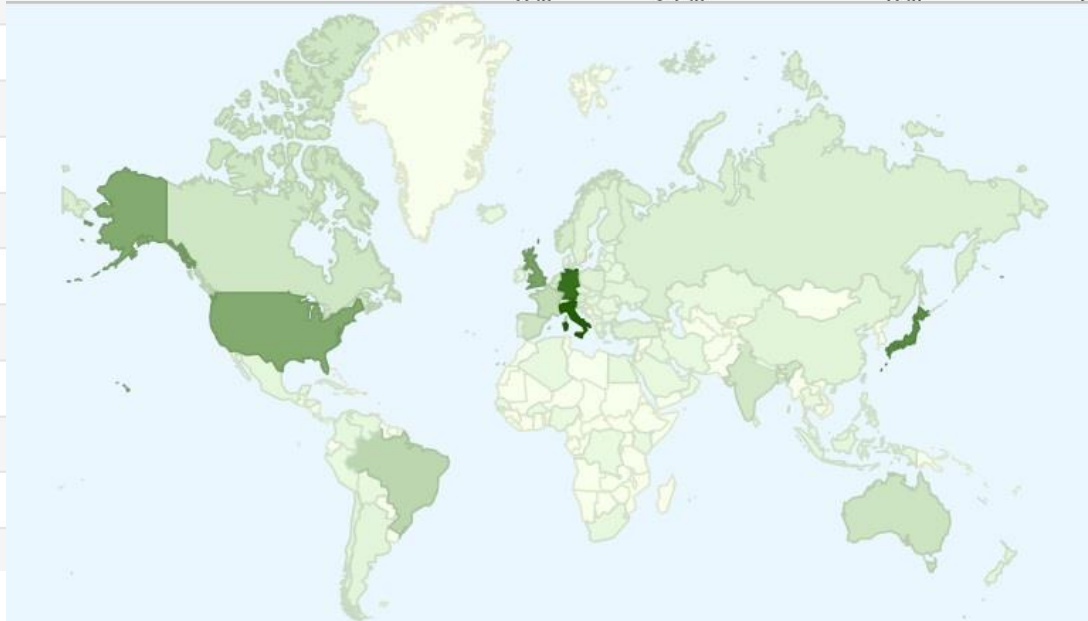
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1. Italy	0%	7%	0%	90%	3%	6,838
2. Germany	0%	14%	0%	80%	6%	6,091
3. Japan	0%	9%	0%	82%	9%	4,725
4. United Kingdom	0%	9%	1%	86%	4%	3,682
5. United States	0%	17%	1%	74%	8%	3,494
6. Brazil	0%	21%	0%	75%	4%	1,531
7. France	0%	0%	0%	0%	7%	1,293
8. Australia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





# バグリスト



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Milestone

2.1.1 7

Searches

Changes 3

Closed Tickets 55

Open Tickets 3

Help

Formatting Help

Search tickets: status:wont-fix or status:closed

Closed Tickets

status:wont-fix or status:closed

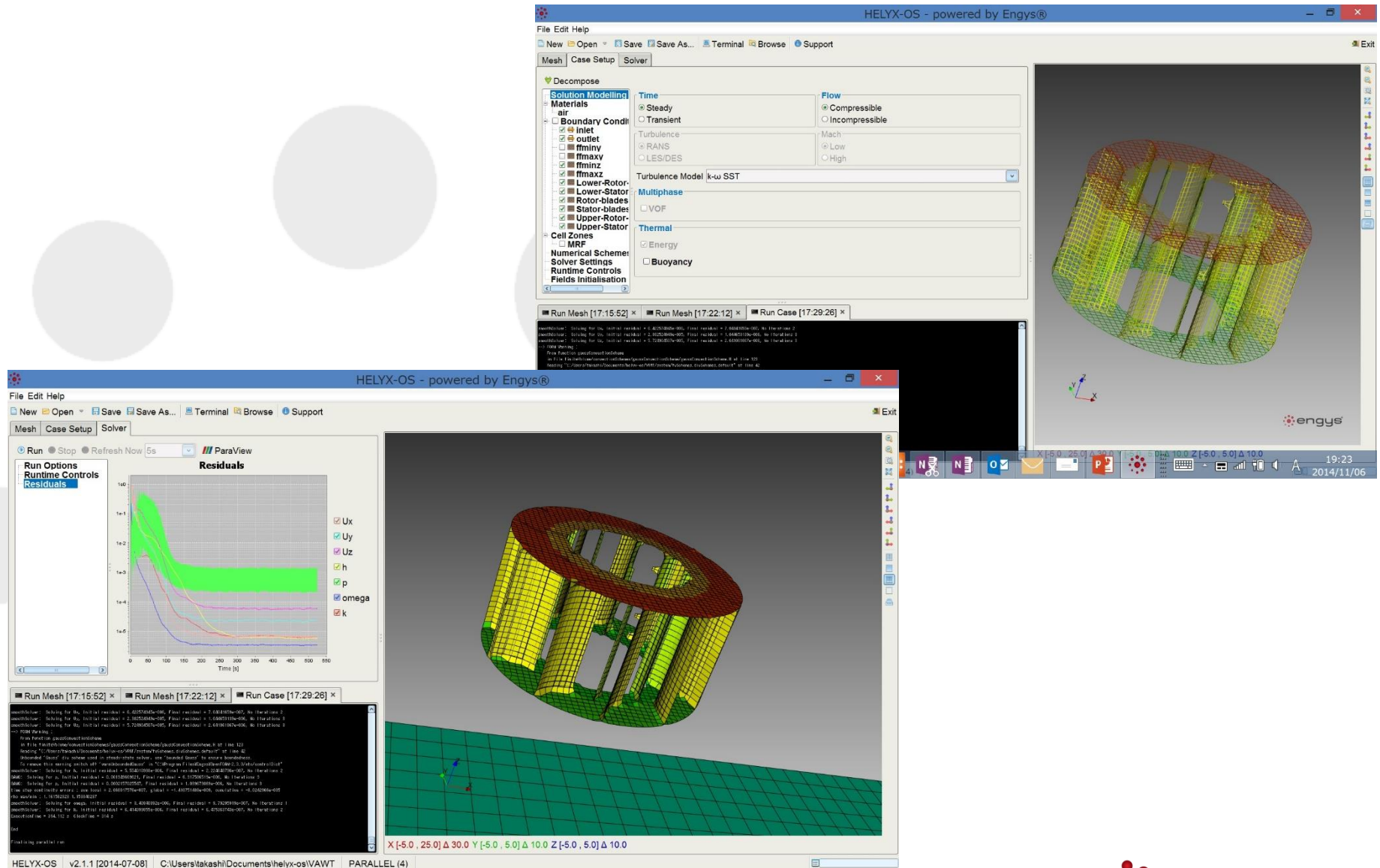
Search


Help

Showing 55 results of 55

#	Summary ▼	Mile	Status	Owner	Create	Update	
58	Alpha.water: If you press Edit cellZones twice and close the 2 windows still the box of the cellSet is showed in the 3D	2.1.1	closed		2014-07-02	2014-07-02	
57	If you open a case which already run for some reasons in the solver tab the case is in run mod	2.1.1	closed		2014-07-02	2014-07-02	
56	If you specify volume flow rate boundary conditions for 2 patches and set to negative for one patch for the other patch it is not possible to set a positive value	2.1.1	closed		2014-07-02	2014-07-02	
55	3D breaks if you have visualisation set to outline, then click cellSet in Fields initialisation alpha.water and then change to surface	2.1.1	closed		2014-07-02	2014-07-02	
54	Fields Initialisation: if you have a VOF case and set U to fixed value with a specific vector (0 0 0) is written to disk and whe you reload the case default initialisation is applied thus it is not possible to specify any vector for U. Please check also the other fields and also for other solvers	2.1.1	closed		2014-07-02	2014-07-02	

# サンプルケース Vertical Axis Wind Turbine





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？