

Basic Information

Name of Program

JANET

Version-Date

1.5

Description-Date

June 2010

Catchwords

unstructured mesh
 polyline editing
 mesh generator
 mesh optimization
 mesh viewer

Short Description of Functionality

The program JANET is an interactive tool for generation and optimization of unstructured meshes.

JANET was developed by Smile Consult GmbH, Hannover (Germany). The software development is not finished yet, so updates are installed frequently.

Input-Files

1. Format gitter05.dat/bin (in JANET: TICAD systemfile ASCII!) The binary version of this format is **not** supported by JANET!
2. Binary mesh format of JANET: janet.bin
3. TELEMACH Mesh format selafin
4. UNTRIM Mesh format untrim_grid.dat
5. TRIM Mesh format tr2.topo.bin
6. Structure line format of BAW insel.dat
7. Structure line format of BAW digi.gkk
8. TRIANGLE polyline format (poly)
9. Format geom.dat (in JANET: JANET ASCII format for {x,y,z} tripl data)

Output-Files

1. Format gitter05.dat/bin (in JANET: TICAD systemfile ASCII!)
2. Binary mesh format of JANET: janet.bin

3. TELEMACH Mesh format selafin
4. UNTRIM Mesh format untrim_grid.dat
5. Structure line format of BAW insel.dat
6. Format geom.dat (in JANET: JANET ASCII format for {x,y,z} tripl data)

Methodology

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Remarks:

There is a user guide for JANET!

There are *hints to use the tools of JANET*, in German

There is no UNDO functionality, so be careful and **save your work frequently!**

Starting JANET:

1. You have to define the PROGHOME variable on your machine.
2. You have to extend your PATH variable with the PATH of the executable script
3. You have to start a command line environment (DOS input box / xterm)
4. You have to type in **janet [xxx]**. The optional **xxx** is the size of memory in megabytes reserved for the Java Runtime Environment.

Program(s) to run before this Program

CREATE_SIMPLE_UNTRIM2_GRID, DREHE2D, GRIDCONVERT, POLYUMFORM,
UNTRIM2007MONITOR

Program(s) to run after this Program

GRIDCONVERT, TICTRI, TOUTR, UTRPRE

Additional Information

Language

Java

Additional software

Java Runtime Environment

Executables

\$PROGHOME/bin/nt/janet.bat

\$PROGHOME/bin/hp11/janet

Output-Files

\$PROGHOME/bin/sun/janet

\$PROGHOME/bin/sgi/janet

Original Version

Smile Consult GmbH

Maintenance

Smile Consult GmbH,G.Seiß

Documentation/Literature

Janet user guide (only in German!)

BAW-internal documentation of a grid generation training:

%PROGHOME%\examples\janet\schulung_2018_03\docs\Janet_Anleitung_1.0.pdf

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Overview