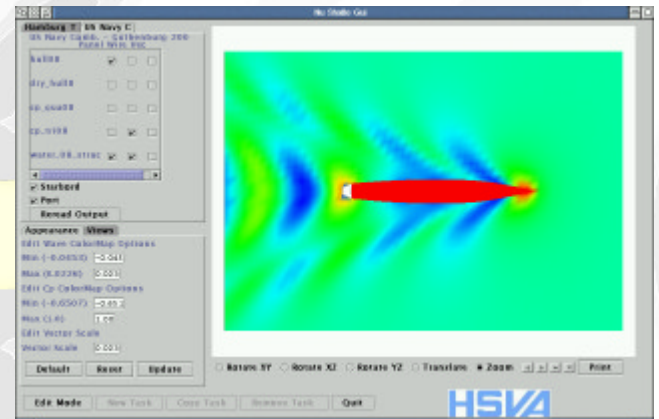


n-SHALLO – HSVA'S NEW WAVE RESISTANCE CODE

HSVA's wave resistance flow code v-SHALLO is a fully non-linear, free surface potential CFD code computing the inviscid flow around a ship hull at a free surface.

v-SHALLO is capable of computing a large number of different flow cases such as:

- (unlimited,) deep water condition
- shallow water
- monohulls / conventional ships
- multi hulls (catamarans, SWATH, trimarans)
- asymmetric ships (monohulls as well as catamarans)
- submarines
- fixed models as well as free to trim and sink conditions



This has been developed using JAVA™ and is available for UNIX/LINUX as well as Microsoft Windows XX platforms.

The GUI substantially facilitates user input and control of computations. It supports

- Input generation
- Import of panel models from different formats
- Control and modification of panel models
- Visualisation and Control of computational results.

Alternative output re-presentation can be performed using Tecplot®

Outputs comprise pressure distribution on the hull and the wave elevation around the ship. Integral results such as forces, trim and sinkage are plotted during the computation.

v-SHALLO has been written in FORTRAN 90 making use of a number of advanced concepts. Executable versions are available for MS-Windows 9x and NT operating systems as well as for LINUX.

v-SHALLO presently supports panel input from different sources such as NAPA/npn® and GiD®.

A major development for the v-SHALLO potential free surface code is its completely new Graphical User Interface (GUI).

For further information please contact:

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