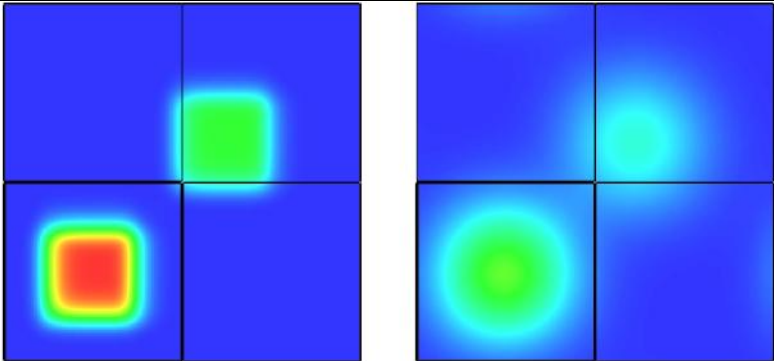


*SUpport to SAfety ANalysis of Hydrogen and Fuel Cell Technologies*

<b>Verification type</b>	Code Verification
<b>Database reference</b>	CV-3
<b>Topic / Application</b>	Code verification
<b>Physics</b>	Numerical Diffusion  Flux terms.
<b>Summary</b>	This test case demonstrates the qualitative behaviour of the Superbee flux limiter scheme for transport of a square wave.
<b>Description</b>	This test case demonstrates the qualitative behaviour of the Superbee flux limiter scheme for transport of a square wave. With diffusivity terms set to zero, this is a test of the ability of the numerical scheme to advect a square wave (high gradient) at an angle across grid cells.
<b>Case Title</b>	Scalar Transport (move_slug) (section 3.6)
<b>Authors</b>	Randall McDermott, Kevin McGrattan, Simo Hostikka, Jason Floyd
<b>Year</b>	2010
<b>Online reference</b>	NIST Special Publication 1018-5
<b>Case image</b>	 <p>Interim and final flow fields of a rectangular mass slug moved across grid cells.</p>
<b>Governing equations</b>	
<b>Results</b>	Please see document