AMROC Blockstructured Adaptive Mesh Refinement in object-oriented C++

AMROC Examples

Euler equations

1D	Shocktube	[codes]
	Interacting blast waves	[codes]
2D	Forward facing step	[codes]
	Backward facing step	[codes]
	Expanding shock in a box (distribution study and comparison with AMRCLAW)	[codes]
	Expanding shock in open space (periodic boundary conditions, comparison with AMRCLAW)	[codes]
	Expanding shock in a cylinder (comparison with AMRCLAW)	[codes]
	Flow over a ramp (comparison with AMRCLAW)	[codes]
	Shock-Bubble-interaction (comparison with AMRCLAW)	[codes]
3D	Forward facing step	[codes]
	Backward facing step	[codes]
	Expanding shock in a box	[codes]
	Expanding shock in open space (periodic boundary conditions)	[codes]

For the benchmark computations a conventional Linux-PC-cluster connected with 100 Mb Fast Ethernet has been used.
Each node has a single-processor board with a Pentium-III-850 MHz processor and 256 MB RAM.

Visualization

1D

2D Matlab
Visual 3

3D

last update: 6/1/04