Community Block Model

Crustal Dynamics – Community Block Model

Meshing for Geological Applications — Grid Projects — Los Alamos National Laboratory

LANL Crustal Deformation Workshop 2003

LaGriT Mesh Generation of the LA Basin GOCAD Microblock Model (PDF) — PDF document, 2702Kb

Benchmark 5

Benchmark problem definitions: http://www-gpsg.mit.edu/fe/Meshes.html

bm_5_2d_refine_tip bm_5_2d_uniform bm_5_3d_tet

LaGrit Control Files to create mesh:

GMV and AVS files of 2D triangle and 3D tetrahedral mesh:

- bm_5_2d_refine_tip.gmv
- bm_5_2d_refine_tip.inp
- bm_5_2d_uniform.gmv
- bm_5_2d_uniform.inp
- bm_5_3d_tets.gmv
- bm_5_3d_tets.inp

GMV General Mesh Viewer Home Page

AVS UCD (*.inp) File format discription

LANL Workshop 2004 Image Gallery

amr_b1b2	amr_b1b2_close	block1_norefine	block1_refine
block1_volume	block1_volume2	block1_volume3_mass	block1_volume3_nomass
block6_topo_problem	block6_topo_problem_close	data	data_close
explode	exterior_closeup	extrude	fd021
fd051	fd101	grid_close	metis_partition
model_faces	multi_material_polygons	polygons_triangulate	refine20
refine20_close	refine_amr_01	refine_amr_02	refine_amr_02_close
refine_smooth1	refine_smooth2	refine_smooth3	tets
tets2	tets_refine	tets_refine2	

Some Issues with CBM Corners — Image Gallery

cbm_E1_corner cbm_El_close cbm_El_close_edges cbm_El_far

Some Issues with CBM Topology — Image Gallery

block5_close_lower block5_close_lower block5_close_top block5_close_top_corner
block5_far block5_far_top block6 block6_close