Figure 1: (a),(c) Parallel isosurface visualization of the Male MRI data showing the skin and skeleton structures. (a) Skin: isovalue = 800, number of triangles = 9,128,803, (d) Skeleton: isovalue = 1200, number of triangles = 6,442,810. (b),(d) Visualizing a time varying gas hydrodynamics simulation of large structure galaxy formation (data courtesy of Dr. Paul Shapiro and Dr. Hugo Martel). (b) Translucent isosurfaces trace gas density, and spheres represent a sampling of the simulated gas particles. (d) A full-resolution isosurface of gas density (isovalue = 160) showing the filamentary structure contains 21,329,730 triangles.

Figure 2: (a) Visualizing the Visible Male data on the UT multi-tiled back projection system using the Metabuffer simulator. (b) Parallel visualization of a 3D seismic simulation data (courtesy of Dr. Paul Stoffa) of the northern Barbados Ridge using combined volume rendering and isocontouring shown on the UT front projection system.