Subject: Particle represetation
Posted by user on Fri, 09 May 2003 16:51:43 GMT
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Hi,

Does anyone know of a simple way of creating an _irregularly_ spaced particle representation from a _regularly_ spaced grid? I have a 2D grid with density values (tends to be close to a Gaussian profile), and I then want to represent this using a finite number of point masses, each having the same mass, but with a general position. The initial density profile will then be represented by the spacing of the points, each containing an equal amount of the mass. For some reason I thought IDL had routines suitable for this, but I can't seem to find any.

I plan to use these as tracer particles, injected onto a regular grid, so I will create a linked list containing a unique particle identifier, its position in 3D space, pressure, energy etc., and then it will be moved around by the velocity vectors living on the hydro grid.

Any ideas received with thanks,

Henrik