TR_1D_model1_SS\set_grid_1D.m

```
% TR_1D_model1_SS\set_grid_1D.m
%
% function [grid_z,iflag] = set_grid_1D(num_pts,length);
%
% This procedure sets the grid point locations for a 1-D
% finite difference discretization. For the first version
% of this program, the grid points will be spaced at
% uniform intervals in the domain 0 to reactor_len.
%
% INPUT :
% =======
% num_pts       INT
%           the number of points in the grid
% length        INT
%           the grid points are to be placed
%           from z=0 to z=length
%
% OUTPUT :
% ========
% grid_z        REAL(num_pts)
%           a column vector of the grid points
%
% Kenneth Beers
% Massachusetts Institute of Technology
% Department of Chemical Engineering
% 7/2/2001
%
% Version as of 7/20/2001
```

function [grid_z,iflag] = set_grid_1D(num_pts,length);

iflag = 0;

```
% The grid points are, for this version of the routine,
% simply placed uniformly from 0 to length.
```

grid_z = linspace(0,length,num_pts)';

iflag = 1;

return;