1. ABOUT THE DATASET

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Title: Finite size test data outputs

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Description: This dataset consists of raw data file outputs from each simulation run for the finite size test results provided in ESI. The *‘FiniteSizeTestResults'* folder contains subfolders with this repeated data set type but with parameters varying for each system size/simulation run number.

Each data set is found in directory path: *‘FiniteSizeTestResults’ > ‘S{x}’ > ‘Run{y}’*, where *S{x}* = system size x3 and *Run{y}* = simulation repeat number, with y ranging from 1-10.

Each data set contains files for

* box-counting data (‘BoxCountData.csv’)
  + box-covering data output with columns headed 'r' and 'num' (corresponding to 'r', measuring cubes of unit size, and 'O(r)', the occupation number, in the paper). Each file contains up to 4 sets of appended box-covering data, each headed in this way. The 3rd to last set is for the percolation cluster at the percolation point, the 2nd to last is for the full system at the percolation point and the last set is for the whole system at the end, fully crosslinked state. Box-covering data was fitted and processed to extract the fractal dimensions in Fig. S3b in ESI.
* gel point time and position coordinates (‘GelPoint\_T{GEL\_TIME}.csv’)
  + monomer position coordinates in 3D at the percolation point. The time, {GEL\_TIME}, in the filename corresponds to the exact timestep that percolation is first detected (percolation time, τ, in the paper). These values were used to produce Fig. S3a in ESI.
* Supercomputer job script output (‘{JOB\_NAME}.sh.o{JOBID}’)
  + Supercomputer job script output. {JOB\_NAME} corresponds to varying volume fraction/reaction probability filename. '{JOBID}' corresponds to varying assigned supercomputer job script ID.

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