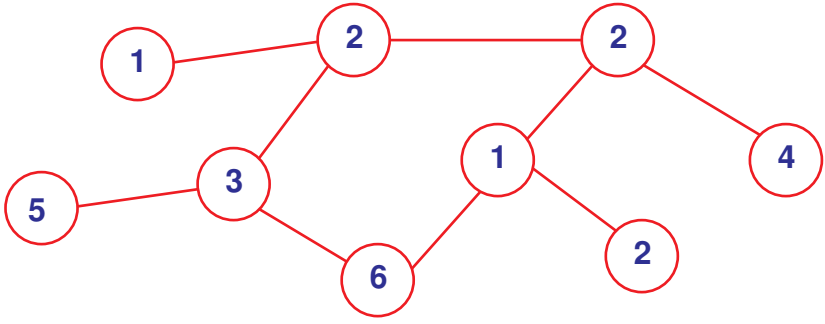
Loosely Synchronous Problems

For example: Macroscopic description of physical system in terms of interactions between irregular inhomogeneous objects evolved as a time synchronized simulation. In particular - biological neural network



Parallelize by irregular partition of data domain

Hardware:
In general will not run well on SIMD machine.

Software:
Initial version of High Performance Fortran cannot describe.

Message passing or extensions of High Performance Fortran on MIMD machines will describe.