for (int d = 0; d < d_limit; d++) {
 G[d] = sigma_ij[d]/(cfg.n2* corr_count) = sigma_i[d]/(cfg.n2* corr_count)*sigma_j[d]/(cfg.n2*corr_count);
 results[corrun] = " = " + to_string(G[d]);

f (calc_states) {
 std:istring str="";
 std:istring str="";
 unsigned int = grid.size();
 for (int != 0; * C.; **!);
 for (int != 0; * C.; **!);
 for (int != 0; * C.; **!);
 if (j < -1);
 if (j < -1);
 if * Str ** ", ";
 if * Str ** ", ";

own resultypes { emergy, mag, ov, oh, states, corrien }; struct Correlationalities (); struct to consigned for (); stative to crouds (); or r_m), or r_m; typeoid stdivector castirector(int) > grid_type; closs typeoid bysecconfight_indCorriga); order company(); order company(); static correlations (); order company(); static correlations (); order constructions (); static correlations (); static correlations ();

stel:wector(std::string) results; word measure(): grid.type genEndomystem(int seedOffset); grid.type genEndomystem(int seedOffset); grid.types(stellacedys(int seedOffset)); grid.types(stellacedys(grid.types, unsigned int); word recordResults():

Soir riconteaulth():

**Control of the Control of t

} str += "\n";

orr.corr_able

/* ---- File System.h ---- */
Finclude /* config.h**
Finclude *Config.h**
Finclude *Finclude *Config.h**
Finclude *Finclude *F

```
slas fg Cap = sto(cube.capt())
slas fg Cap = sto(cube.ca
```

```
}
return grid;
jrid_type_System:gmtFileState(std::string_filename)(
    std::\ffcrma=filenfilename);
    std::\ffcrma=filenfilename);
    std::\ffcrcddistrings_string=filename);
    std::\ffcrcddistrings_string=filename);
    std::\ffcrcddistrings_string=filename;
    std::\ffcrcdistring=filename;
    std::\ffcrcdistring
                 }
return grid;
  grid_type System::getRelaxedSys(int seedOffset) {
   grid_type new_grid;
   if(cfg.initial == "random")
        new_grid = genRandomSystem(seedOffset);
                   else

new_grid = getFileState(cfg.initial);

grid = new_grid;
                     if(cfg.alg == "metro")
   grid = metropolis_sweeps(grid, cfg.nl);
                   eise

std::cerr << "unknown alg!" << std::endl;

return grid;
  void System::compute() {
   if (calc_states)
      results[states] ** to_string(cfg.T) + "\n";
                 for(int evolveStep=0; evolveStep<cfg.n2; ++evolveStep) {
    measure();</pre>
                                if(cfg.recordMain)
recordMesults();
                                // evolve
if (cfg.alg == "metro")
grid = metropolis_sweeps(grid, cfg.n3);
else
std::cerr << "unknown alg!" << std::endl;</pre>
                 }
recordResults();
    .

void System::recordResults() {
    double tempResult;
    if (calc_e) {
        results[energy] += ", " + to_string(e_avg / cfg.n2);
    }
}

results[energy] += ", " + to_string(e_avg / cfg.n2);
                   if (calc_m)
    results[mag] += ", " + to_string(m_avg / cfg.n2);
                   if (calc_cv) {
  tempResult = 1.0*(e2_avg / cfg.n2 - e_avg / cfg.n2* e_avg / cfg.n2) * cfg.L* cfg.L / (cfg.T* cfg.T);
  results(cv) ** ". " + to_string(tempResult);
                   if (calc_chi) {
  tempResult = 1.0*(m2_avg / cfg.n2 = m_avg / cfg.n2* m_avg / cfg.n2) * cfg.L* cfg.L / cfg.T;
  results[chi] ** ", " * to_string(tempResult);
                   (cate_corfun) {
    cont uni product of limit = efg.L/2:
    cont uni product of sign. } = old: title correcteduble (d.limit, 0.0);
    std:::wetcrodoble sign. } = std::wetcrodoble (d.limit, 0.0);
    std::wetcrodoble sign. ] = std::wetcrodoble (d.limit, 0.0);
    std::wetcrodoble sign. ] = std::wetcrodoble (d.limit, 0.0);
    std::wetcrodoble sign. ] = std::wetcrodoble (d.limit, 0.0);

                                  for(auto &corr : correlations){
    for (int d = 0; d < corr_range; d++) {
        sigma_ij[d] += corr.corr_ab[d];
        sigma_id] += corr.corr_a[d];
        sigma_id] += corr.corr_a[d];
        sigma_id] += corr.corr_a[d];</pre>
```