```c
typedef struct {
  unsigned long id;          // Node identification
  char *name;
  double lat, lon;           // Node position
  unsigned short nsucc;      // Node successors: wighted edges
  unsigned long *successors;
} node;

  unsigned long nnodes = 23895681UL;
  node *nodes;

  if((nodes = (node *) malloc(nnodes*sizeof(node))) == NULL) ExitError("when allocating memory for the nodes vector", 5);

  FILE *fin;


/************************ Writing *********************************/

  unsigned long ntotnsucc=0UL;
  for(i=0; i < nnodes; i++) ntotnsucc += nodes[i].nsucc;

  strcpy(name, argv[1]); strcpy(strrchr(name, '.'), ".bin");
  if ((fin = fopen (name, "wb")) == NULL) ExitError("the output binary data file cannot be opened", 31);


/* Global data --- header */
  if( fwrite(&nnodes, sizeof(unsigned long), 1, fin) +
      fwrite(&ntotnsucc, sizeof(unsigned long), 1, fin) != 2 ) ExitError("when initializing the output binary data file", 32);

/* Writing all nodes */
  if( fwrite(nodes, sizeof(node), nnodes, fin) != nnodes ) ExitError("when writing nodes to the output binary data file", 32);

/* Writing sucessors in blocks */
  for(i=0; i < nnodes; i++) if(nodes[i].nsucc) {
    if( fwrite(nodes[i].successors, sizeof(unsigned long), nodes[i].nsucc, fin) != nodes[i].nsucc ) ExitError("when writing edges to the output binary data file", 32);
  }

  fclose(fin);


/************************ Reading *********************************/

  if ((fin = fopen (argv[1], "r")) == NULL) ExitError("the data file does not exist or cannot be opened", 11);

/* Global data --- header */
  if( fread(&nnodes, sizeof(unsigned long), 1, fin) +
      fread(&ntotnsucc, sizeof(unsigned long), 1, fin) != 2 ) ExitError("when reading the header of the binary data file", 12);

/* getting memory for all data */
  if((nodes = (node *) malloc(nnodes*sizeof(node))) == NULL) ExitError("when allocating memory for the nodes vector", 13);
  if((allsuccessors = (unsigned long *) malloc(ntotnsucc*sizeof(unsigned long))) == NULL) ExitError("when allocating memory for the edges vector", 15);

/* Reading all data from file */
  if( fread(nodes, sizeof(node), nnodes, fin) != nnodes ) ExitError("when reading nodes from the binary data file", 17);
  if( fread(allsuccessors, sizeof(unsigned long), ntotnsucc, fin) != ntotnsucc ) ExitError("when reading sucessors from the binary data file", 18);
  fclose(fin);

/* Setting pointers to successors */
  for(i=0; i < nnodes; i++) if(nodes[i].nsucc) { nodes[i].successors = allsuccessors; allsuccessors += nodes[i].nsucc; }
```