



Figure 2: Data Structure

#### 4. Data Structure

```
typedef struct n_struct {
    unsigned indx;          /* node index(from 0 to NumOfLine - 1) */
    unsigned num;           /* line number(May be different from indx) */
    enum e_gtype type;      /* gate type */
    unsigned fin;           /* number of fanins */
    unsigned fout;          /* number of fanouts */
    struct n_struct **unodes; /* pointer to array of up nodes (driving this node) */
    struct n_struct **dnodes; /* pointer to array of down nodes (driven by this node) */
    int level;              /* level of the gate output */
} NSTRUC;
```