

list

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1 list allocation

allows to organize sequential access to underlying memory (FIFO/LIFO)

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1.1 metadata-free allocation

allocation without metadata being written to the data memory pool except for some static data structures or pointers.

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1.2 in-place metadata allocation

allocation where sensitive allocation metadata is placed in the same memory pool where allocated data reside. list metadata and data constructs a recurrent data structure. i.e.

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```
struct list_data {  
    /* data */  
    void** data;  
    /* next element */  
    struct list_data* next;  
};
```