Fast Swap for C Documentation

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Contents

Fast swap for C (gcc required), use only the header file fswap.h.

> A functional combine producing swap objects of any types.

- Automatic calculation of the size of the element to be swapped.

- Check the dimension of both elements.

- Checking the identity of both elements.

- High speed of data processing.

- Support C99 and above.

To connect to your project, you need to declare a one header file:

```
#include "fswap.h"
```

Call swap method:

```
/* obj1, obj2 - any C types. */
__swap_fast(obj1, obj2);
```

If you use own structures in an array format, you will need to add their description to fswap.h, example:

```
__builtin_choose_expr( \
    __builtin_types_compatible_p(__typeof__(A), struct my_struct[]), __swap_p(A, B,␣
→sizeof(A), sizeof(B)), \
```