

# How to pass arrays over interface calls

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version	1.1.1
scope	Example. This code is provided as example code for a user to base their code on.
description	How to pass arrays over interface calls
boards	Unless otherwise specified, this example runs on the SliceKIT Core Board, but can easily be run on any XMOS device by using a different XN file.

Interface functions can take array arguments like normal functions:

```
interface my_interface {
    void msg(int a[]);
};
```

The client end can pass an array into the function:

```
void task1(client interface my_interface c)
{
    int a[5] = {0,1,2,3,4};
    c.msg(a);
}
```

On the server end the select case can access elements of the array. The compiler may translate that array access into xCONNECT inter-task communication in the hardware.

```
void task2(server interface my_interface c)
{
    select {
    case c.msg(int a[]):
        printintln(a[2]);
        printintln(a[3]);
        break;
    }
}
```