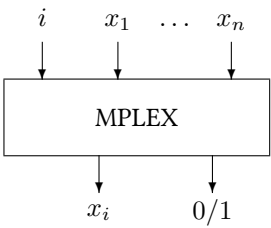


## Block MPLEX

The MPLEX block simulates a multiplexer, i.e. it connects a certain input to the output signal.



|            |               |
|------------|---------------|
| Name       | MPLEX         |
| Function   | fb0048        |
| Inputs     | 2 . . . [101] |
| Outputs    | 2             |
| Parameters | 0             |
| Strings    | 0             |
| Group      | S             |

### Inputs

- 1     Output index  $i$
- 2     Any signal  $x_1$
- $i + 1$  Any signal  $x_i$
- $n + 1$  Any signal  $x_n$

### Outputs

- 1     Multiplexed signal  $x_i$ , when  $1 \leq i \leq n$ , else set to 0
- 2     Error indicator is set to 0 if  $1 \leq i \leq n$ , else set to 1.

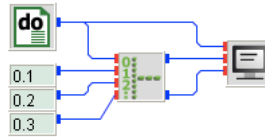
### Parameters

None

### Strings

None

mplex.vseit



A **DO** counts from zero to four, used as first input of the **Mplex** block. Since three **CONST** blocks are connected to the **Mplex** block zero and four are unallowed values for the output index. Therefore, warning messages occur and the **SCREEN** block displays

```
W05107 Block 00002: Invalid index input
```

```
0.0 0.0 1.0
```

```
1.0 0.1 0.0
```

```
2.0 0.2 0.0
```

```
3.0 0.3 0.0
```

```
4.0 0.0 1.0
```

```
W05108 Block 00002: Number of invalid indexes:      2
```