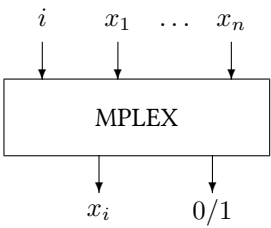


Block MPLEX

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.

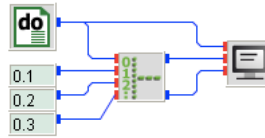
Parameters

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
```