

How to set a timing requirement in the XTA

version	1.0.1
scope	Example. This code is provided as example code for a user to base their code on.
description	How to set a timing requirement in the XTA
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.

Compile some code, for example:

```
int f() {
    return 0;
}

int main() {
    return f();
}
```

First, load the executable into the XTA, then time the function 'f'. This will create a route as shown in the Routes view in the left hand panel. The top pane of the Routes view allows a route to be selected, whereas the bottom pane displays the timing for the current selection.

Right-click on the route and select 'Set timing requirement' Once supplied, the pass/fail status of the route will be displayed in this routes icon.

To set a timing requirement using the command line XTA, or from an XTA script/embedded source command, the following can be used:

```
set required 0 10.0 us
```

This will set a timing requirement of 10 microseconds on the route with an id of 0.