

527-Problems Defining Multiple Instances of a Module

Symptoms

While the Netlinx master is running a program, the following runtime error is seen in diagnostics:

```
CipMan:RunMainLine - Null Table Error 6
```

In addition, modules defined in the program may not be working properly.

Cause

One known cause of this error is defining modules of different types in a mixed order.

Resolution

All modules of a certain type must be defined together. For example, the following pseudo-code would cause the runtime error:

```
DEFINE_MODULE 'A'
DEFINE_MODULE 'B'
DEFINE_MODULE 'A'
DEFINE_MODULE 'B'
```

This can be corrected by defining the modules as follows:

```
DEFINE_MODULE 'A'
DEFINE_MODULE 'A'
DEFINE_MODULE 'B'
DEFINE_MODULE 'B'
```

Note that this does pose a limitation on the use of modules: A module can call another module or be reused, but can not do both. For example, if module type B is defined within module type A, then the following situation occurs:

```
DEFINE_MODULE 'A' (calls DEFINE_MODULE 'B')
DEFINE_MODULE 'A' (calls DEFINE_MODULE 'B')
```

This is effectively the same as the original problem:

```
DEFINE_MODULE 'A'
DEFINE_MODULE 'B'
DEFINE_MODULE 'A'
DEFINE_MODULE 'B'
```