

## Reference

# While Loop

A while loop is a structure within ROBOTC which allows a portion of code to be run over and over, as long as a certain condition remains true.

Below is the pseudocode outline of a while loop.

```
while (condition)
```

**(condition)**

Either **true** or **false** (see Reference > Boolean Logic).

```
{  
  // repeated-commands  
}
```

**Repeated commands**

Commands placed here will run over and over as long as the (condition) is **true** when the program checks at the beginning of each pass through the loop.

Below is an example of a program using an infinite While Loop.

```
task main()  
{  
  bMotorReflected[port2]=1;  
  while (1 == 1)  
  {  
    motor[port3]=127;  
    motor[port2]=127;  
  }  
}
```

The condition is true as long as 1 is equal to 1, which is always.

While the condition is true, both motors will receive full power.