Galil and Yaskawa Motion Controllers as a Master

UniOP now supports both the Yaskawa SMC2000 series motion controllers, as well as the Galil DMC series motion controllers. The driver entitled *Galil/Yaskawa* supports a master connection. The driver entitled *Galil* supports a slave connection.

Using the Galil/Yaskawa driver, the user is able to monitor and modify variables and arrays, as well as send commands to the controller. Connection to the controller is made via a CA37 cable on the main communications port (COM 1). Communications should be set to 19200 baud, no parity, one stop bit, and echo on.

However, there are some restrictions placed on variables and arrays. For the panel to be able to monitor and modify variables, **the name of the variable must be defined as Vnnn** (where nnn is a three digit number). For example, V001 is a valid variable name, whereas V1 is not valid. The Vnnn variable can be used in the controller program to change parameters, as well as to change program flow. Arrays are used in a similar manner and can be dimensioned using a *DM* statement in the motion control program. They must be defined as **UNIOP[zzzz]**, where zzzz can be any number ranging from 0 to 4999.

Variables and arrays in the controller can have data in the form x.y (where x is ten digits and y is four digits). **UniOP will only operate on the integer range and disregard the fractional part of the form**.

The *Send Command* macro in the *Keyboard Macro Editor* can be used to program keys or touchcells to issue commands to the motion controller. Refer to the controller manuals for valid command strings.

An example project file showing the use of this driver can be found on our BBS (513-874-4712, up to 33400 baud, 8 data bits, no parity, 1 stop bit) under the filename **YASKAWA.PRJ**. This file is located in the directory in which the user is placed into upon logging in.

The driver can also be found on our BBS within the **DRIVER** directory. The filename for the driver is **UPLC82.ZIP**. To install this driver, unzip the file into your *Designer* directory. Start the Designer software and select *Change Controller Driver* from the *Project* menu. This will bring up a dialog box which contains a button entitled *Find All*. Clicking on this button will install the driver and allow the user to select it from the list of drivers that is present within the dialog box.

Technical assistance may be obtained :
In North America EXOR at 1 -513-874-4665
In Europe EXOR Italy 045 - 8779068