Using UniOP with an IAI SuperSEL Actuator

UniOP now supports the IAI SuperSEL intelligent actuator. The following table lists the available data types.

Data Type	Data Access*	Address Range	Data Format	Display Format
Global Variable	RO	200 - 327	Double Word (Bin)	Numeric
Flags	RO, RW	600 - 887	Bit	Numeric
Input Port	RO	0 - 287	Bit	Numeric
Output Port	RO, RW	300 - 587	Bit	Numeric
Point Variable	RO, RW	-	Double Word (Bin)	Numeric
Axis Position	RO	1 - 10	ASCII	ASCII
Error Info.	RO	1 - 10	ASCII	ASCII

* RO = Read Only, RW = Read/Write

The user can also send commands to the actuator via the *Send Command* in the *Keyboard Macro Editor*. The following commands can be transmitted:

- Run Program
- Home
- Servo Off
- Jog Reverse
- Point Move
- Stop Program
- Servo On
- Jog Forward
- Halt
- Reset

Connection is made from the UniOP to the actuator via a CA7 cable. Communication settings for the actuator default to 9600 baud, 8 data bits, no parity, and one stop bit. If necessary, these settings can be changed in the Designer for Windows programming software by selecting *Controller Setup* from the *Project* menu and clicking on the *Comm …* button.

Notes:

1. *Point Variables*
   - You must select a point variable that is *unused.*
   - You can write to the first axis position *only*.
   - You must use a fixed point placement of *three* (3).

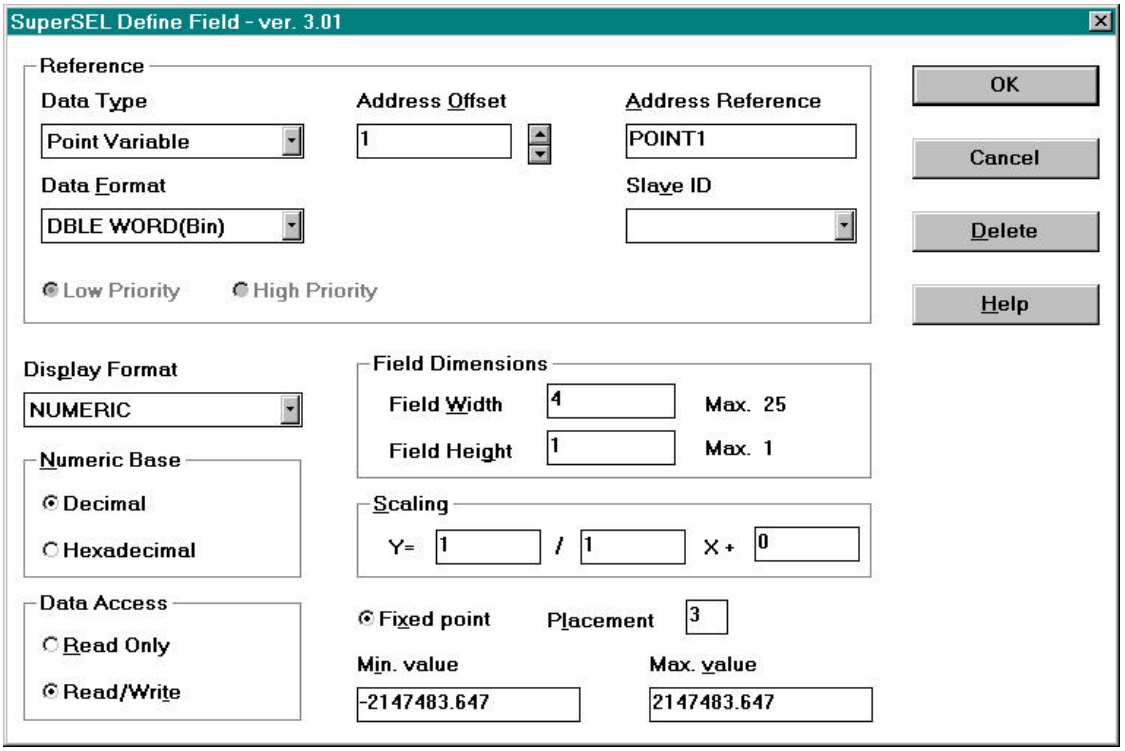

Figure 1

- The number in the *Address Reference* box indicates the point number.

2. *Run Program*
   - The number in the *Address Reference* box indicates the program number.

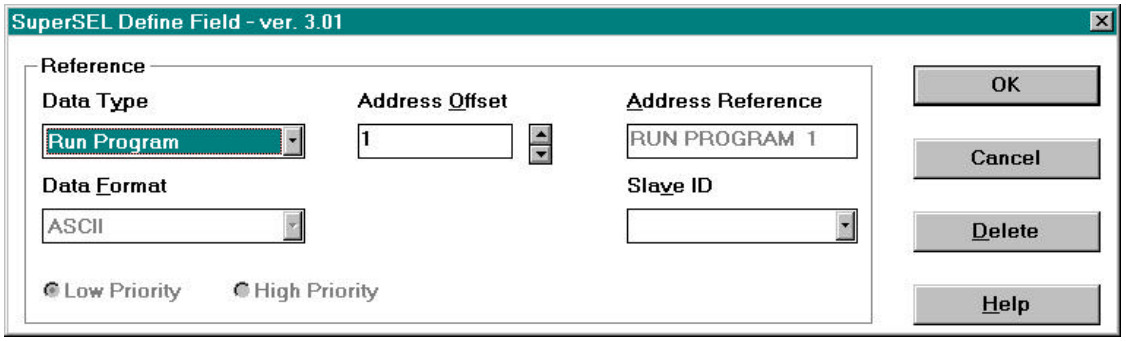

Figure 2

3. *Home*
   - The number in the *Address Reference* box indicates the axis number.

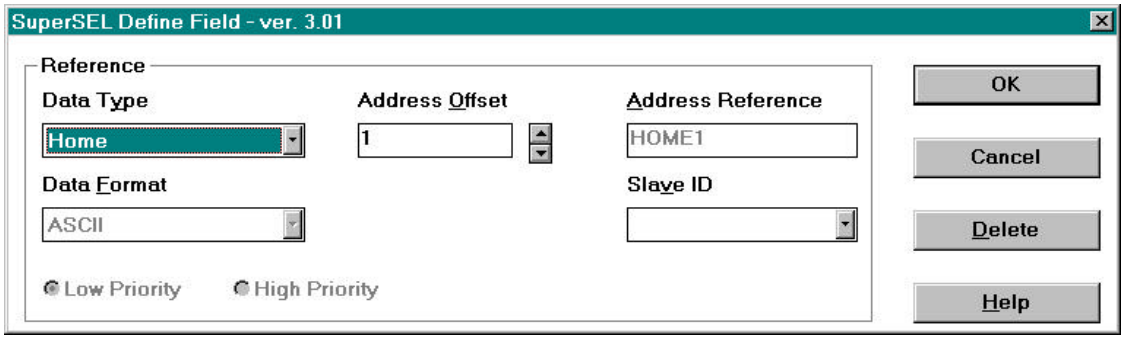

Figure 3

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 **IAI.ZIP**. This file is located in the directory in which the user is placed into upon logging in to the BBS. The driver can also be found on our BBS within the **DRIVER** directory. The filename for the driver is **UPLC84.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 :