





# **FLOW CHARTS**

#### Load Preset Table





# Run a Trapezoid, S-Curve, Symmetrical S-Curve, or Home Search Profile





#### **Run To Position**





#### Run To Limit





# Velocity Mode





# **Dynamic Positioning**



Turning on Output Enable sets the 'zero point' for the CTRIO, that is, the current position value is set to 0.



# **Dynamic Velocity**





#### System Command - PLC Read from CTRIO

Reading the CTRIO's internal data registers is a two-step process:
1. Ask the CTRIO to transfer the internal register values to it's shared RAM.
2. Transfer the values from the CTRIO's shared RAM to the PLC's V-memory.



#### System Command - ThinknDo Read from CTRIO



# System Command (PLC Write One Register to CTRIO)



# System Command (TnD Write One Register to CTRIO)



# System Command (PLC Write All Registers to CTRIO)



# System Command (TnD Write All Registers to CTRIO)



#### Build Preset Table Using Initialize Table and Add Table Entry Commands





### Edit Preset Table Entry





### Edit and Reload Preset Table Entry





#### Initialize Table



#### Initialize Table on Reset



### CTRIO File System Overview

At power up, the CTRIO: 1. clears the RAM file system

2. ensures the ROM file system is intact

3. copies the entire ROM file system to the RAM file system.

From this point on, all File and Table operations operate from the RAM copy.

CTRIO ROM	CTRIO RAM
File System	File System
Directory	Directory
CTRIO	CTRIO
Configuration	Configuration
User	User
Files	Files
CRC	CRC







