

Name	Value	Data Type	Scope
Axis_nbr	2	SINT	exmsg_dvnet
Current Axis Number			
<i>Axis_nbr - MainProgram/_20_ReadCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)</i>			
<i>Axis_nbr - MainProgram/_21_WriteCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)</i>			
<i>Axis_nbr - MainProgram/_22_generatecam - 0(CPT)</i>			
<i>Axis_nbr - MainProgram/MainRoutine - *3(MOV), *4(CLR), *5(ADD), *6(MOV), *7(CLR), *8(ADD), *9(MOV), 5(ADD), 5(GRT), 8(ADD), 8(GRT)</i>			
Axis_Node_Nbrs		INT[5]	exmsg_dvnet
List of node #'s for Available Axis (size # of Axis + 2)			
<i>Axis_Node_Nbrs - MainProgram/_20_ReadCam - 2(MOV)</i>			
<i>Axis_Node_Nbrs - MainProgram/_21_WriteCam - 2(MOV)</i>			
<i>Axis_Node_Nbrs - MainProgram/MainRoutine - *1(FLL), 5(GRT), 8(GRT)</i>			
axis_ptr	0	DINT	exmsg_dvnet
pointer to axis index of cam array [receipt],[axis],[slot]			
<i>axis_ptr - MainProgram/_20_ReadCam - *5(CPT)</i>			
<i>axis_ptr - MainProgram/_21_WriteCam - *5(CPT)</i>			
<i>axis_ptr - MainProgram/_22_generatecam - *0(CPT), 0(CPT)</i>			
<i>axis_ptr - Scheduler/_01_CamRead - *2(COP)</i>			
<i>axis_ptr - Scheduler/_02_CamWrite - 2(COP)</i>			
cam_nbr	1	DINT	exmsg_dvnet
cam number in EcoDrive (1 or 2)			
<i>cam_nbr - MainProgram/_20_ReadCam - 3(GRT), 3(LES), 6(CPT)</i>			
<i>cam_nbr - MainProgram/_21_WriteCam - 3(GRT), 3(LES), 6(CPT)</i>			
<i>cam_nbr - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV)</i>			
camread	0	BOOL	exmsg_dvnet
Read Cam (in process)			
<i>camread - MainProgram/_20_ReadCam - *8(OTL)</i>			
<i>camread - MainProgram/MainRoutine - 3(XIO), 5(XIO), 6(XIO), 8(XIO)</i>			
<i>camread - Scheduler/_01_CamRead - *3(OTU), *5(OTU), 0(XIO), 4(XIC), 6(XIC)</i>			
<i>camread - Scheduler/MainRoutine - 0(XIC)</i>			
Cams		DINT[10,2,1024]	exmsg_dvnet
Motion Cam Memory Array [receipt],[axis],[item]			
<i>Cams - MainProgram/_22_generatecam - *0(CPT)</i>			
<i>Cams - Scheduler/_01_CamRead - *2(COP)</i>			
<i>Cams - Scheduler/_02_CamWrite - 2(COP)</i>			
camwrite	0	BOOL	exmsg_dvnet
Command flag to initiate cam Write (on while Write in process)			
<i>camwrite - MainProgram/_21_WriteCam - *8(OTL)</i>			
<i>camwrite - MainProgram/MainRoutine - 3(XIO), 5(XIO), 6(XIO), 8(XIO)</i>			
<i>camwrite - Scheduler/_02_CamWrite - *1(OTU), *3(OTU), 0(XIO), 2(XIC), 4(XIC)</i>			
<i>camwrite - Scheduler/MainRoutine - 1(XIC)</i>			
Class_Rd	118	INT	exmsg_dvnet
Alias For: readmsg1.Class			
Base Tag: readmsg1.Class			
<i>Class_Rd - MainProgram/_20_ReadCam - *6(MOV)</i>			
<i>Class_Rd - MainProgram/_21_WriteCam - *6(MOV)</i>			
<i>readmsg1 - Scheduler/_01_CamRead - *6(MSG)</i>			
Instance_Rd	72	DINT	exmsg_dvnet
Alias For: readmsg1.Instance			
Base Tag: readmsg1.Instance			
<i>Instance_Rd - MainProgram/_20_ReadCam - *6(CPT)</i>			
<i>Instance_Rd - MainProgram/_21_WriteCam - *6(CPT)</i>			
<i>readmsg1 - Scheduler/_01_CamRead - *6(MSG)</i>			
Local:1:O		AB:1769_SDN_364Bytes:O:0	exmsg_dvnet

Local:1:O (Continued)		
Local:1:O.CommandRegister	AB:1769_SDN_CommandRegister:O:0	
Local:1:O.CommandRegister.Run 1	BOOL	
<i>Local:1:O.CommandRegister.Run - MainProgram/MainRoutine - *2(OTE)</i>		
makecam	0	BOOL
<i>makecam - MainProgram/_22_generatecam - *1(OTU), 0(XIC)</i>		
<i>makecam - MainProgram/MainRoutine - 9(XIC)</i>		
Node_Nbr	0	DINT
Devicenet Node corresponding to specified Asix		
<i>Node_Nbr - MainProgram/_20_ReadCam - *2(MOV), 2(LES), 7(MOV)</i>		
<i>Node_Nbr - MainProgram/_21_WriteCam - *2(MOV), 2(LES), 7(MOV)</i>		
oneshots	BOOL[32]	
read1cam	0	BOOL
turn on to read cam from 1 axis		
<i>read1cam - MainProgram/MainRoutine - 3(XIC)</i>		
readAll	0	BOOL
Read All Axis (in process)		
<i>readAll - MainProgram/MainRoutine - *4(OTL), *5(OTU), 4(XIO), 5(XIC)</i>		
readallcams	0	BOOL
Turn on to read all axis		
<i>readallcams - MainProgram/MainRoutine - 4(XIC)</i>		
readDone	0	BOOL
<i>readDone - Scheduler/_01_CamRead - *1(OTE), 2(XIC), 3(XIC)</i>		
readInit	0	BOOL
initiate read message		
<i>readInit - Scheduler/_01_CamRead - *1(OTU), *4(OTL), *5(OTU), 1(XIC), 4(XIO), 6(XIC)</i>		
readmsg1		MESSAGE
<i>readmsg1 - Scheduler/_01_CamRead - *6(MSG)</i>		
readmsg1.Flags	16#0200	INT
readmsg1.Flags.4	0	BOOL
readmsg1.Flags.5	0	BOOL
readmsg1.Flags.7	0	BOOL
readmsg1.EW	0	BOOL
readmsg1.ER	0	BOOL
<i>readmsg1.ER - Scheduler/_01_CamRead - 1(XIO), 5(XIC)</i>		
readmsg1.DN	0	BOOL
<i>readmsg1.DN - Scheduler/_01_CamRead - 1(XIC)</i>		
readmsg1.ST	0	BOOL
readmsg1.EN	0	BOOL
<i>readmsg1.EN - Scheduler/_01_CamRead - 1(XIC), 4(XIO), 5(XIC)</i>		
readmsg1.TO	0	BOOL
readmsg1.EN_CC	0	BOOL
readmsg1.ERR	16#0000	INT
readmsg1.EXERR	16#0000_0000	DINT
readmsg1.ERR_SRC	0	SINT
readmsg1.DN_LEN	32	INT
readmsg1.REQ_LEN	0	INT
readmsg1.DestinationLink	0	INT
readmsg1.DestinationNode	8#000_000	INT
readmsg1.SourceLink	0	INT
readmsg1.Class	16#0076	INT
<i>Class_Rd - MainProgram/_20_ReadCam - *6(MOV)</i>		
<i>Class_Rd - MainProgram/_21_WriteCam - *6(MOV)</i>		
readmsg1.Attribute	16#0089	INT

readmsg1 (Continued)		
<i>readmsg1.Attribute - Scheduler/_01_CamRead - *4(CPT)</i>		
readmsg1.Instance	72	DINT
<i>Instance_Rd - MainProgram/_20_ReadCam - *6(CPT)</i>		
<i>Instance_Rd - MainProgram/_21_WriteCam - *6(CPT)</i>		
readmsg1.LocalIndex	0	DINT
readmsg1.Channel	'\$00'	SINT
readmsg1.Rack	8#000	SINT
readmsg1.Group	0	SINT
readmsg1.Slot	0	SINT
readmsg1.Path	\$01\$03\$01\$01\$02\$01	STRING
readmsg1.Path.LEN	6	DINT
<i>readmsg1.Path.LEN - MainProgram/_20_ReadCam - *7(MOV)</i>		
readmsg1.Path.DATA		SINT
readmsg1.RemoteIndex	0	DINT
readmsg1.RemoteElement		STRING
readmsg1.RemoteElement.LEN	0	DINT
readmsg1.RemoteElement.DATA		SINT
readmsg1.UnconnectedTimeout	30000000	DINT
readmsg1.ConnectionRate	7500000	DINT
readmsg1.TimeoutMultiplier	0	SINT
readstatus	1024	DINT
<i>readstatus - MainProgram/_20_ReadCam - *0(CLR), *1(MOV), *2(MOV), *3(MOV), *4(MOV)</i>		
<i>readstatus - MainProgram/_21_WriteCam - *1(MOV), *2(MOV)</i>		
<i>readstatus - Scheduler/_01_CamRead - *3(MOV), *5(CPT)</i>		
<i>readstatus - Scheduler/_02_CamWrite - *3(CPT)</i>		
rec_buffer		DINT[8]
<i>rec_buffer - Scheduler/_01_CamRead - 2(COP)</i>		
recipe_nbr	5	DINT
Specify which set of cams to work		
<i>recipe_nbr - MainProgram/_20_ReadCam - 4(GRT), 4(LES), 5(CPT)</i>		
<i>recipe_nbr - MainProgram/_21_WriteCam - 4(GRT), 4(LES), 5(CPT)</i>		
<i>recipe_nbr - MainProgram/_22_generatecam - 0(CPT)</i>		
<i>recipe_nbr - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV), *9(MOV)</i>		
recipe_ptr	4	DINT
pointer to recipe index of cam array [recipe],[axis],[slot]		
<i>recipe_ptr - MainProgram/_20_ReadCam - *5(CPT)</i>		
<i>recipe_ptr - MainProgram/_21_WriteCam - *5(CPT)</i>		
<i>recipe_ptr - MainProgram/_22_generatecam - *0(CPT), 0(CPT)</i>		
<i>recipe_ptr - Scheduler/_01_CamRead - *2(COP)</i>		
<i>recipe_ptr - Scheduler/_02_CamWrite - 2(COP)</i>		
Recipes_Avail	10	DINT
total number of recipes available		
<i>Recipes_Avail - MainProgram/_20_ReadCam - 4(GRT)</i>		
<i>Recipes_Avail - MainProgram/_21_WriteCam - 4(GRT)</i>		
<i>Recipes_Avail - MainProgram/MainRoutine - *0(MOV)</i>		
SDM_slot	1	SINT
Slot # of SDM module on I/O bus		
<i>SDM_slot - MainProgram/_20_ReadCam - 7(MOV)</i>		
<i>SDM_slot - MainProgram/_21_WriteCam - 7(MOV)</i>		
<i>SDM_slot - MainProgram/MainRoutine - *0(MOV)</i>		
slot	1	DINT
pointer to the appropriate slot in the cam item 0-1023		
<i>slot - MainProgram/_20_ReadCam - *8(CLR)</i>		
<i>slot - MainProgram/_21_WriteCam - *8(CLR)</i>		
<i>slot - MainProgram/_22_generatecam - 0(CPT), 1(GEQ)</i>		
<i>slot - MainProgram/MainRoutine - *9(FOR)</i>		

slot (Continued)			
<i>slot - Scheduler/_01_CamRead - *2(COP), *3(ADD), 3(ADD), 3(GEQ), 3(MOV), 4(CPT), 5(CPT)</i>			
<i>slot - Scheduler/_02_CamWrite - *1(ADD), 1(ADD), 1(GEQ), 1(MOV), 2(ADD), 2(COP), 3(CPT)</i>			
write_buffer		INT[128]	exmsg_dvnet
integer buffer contains data written to drive			
<i>write_buffer - Scheduler/_02_CamWrite - *2(COP)</i>			
writelcam	0	BOOL	exmsg_dvnet
Turn on to write cam to 1 axis			
<i>writelcam - MainProgram/MainRoutine - 6(XIC)</i>			
writeall	0	BOOL	exmsg_dvnet
Write All Axis (in process)			
<i>writeall - MainProgram/MainRoutine - *7(OTL), *8(OTU), 7(XIO), 8(XIC)</i>			
writeallcams	0	BOOL	exmsg_dvnet
Turn on to write cams to all axis			
<i>writeallcams - MainProgram/MainRoutine - 7(XIC)</i>			
writelnit	0	BOOL	exmsg_dvnet
initiate write message			
<i>writelnit - Scheduler/_02_CamWrite - *0(OTU), *1(OTU), *2(OTL), *3(OTU), 1(XIC), 2(XIO), 4(XIC)</i>			
writemsg1		MESSAGE	exmsg_dvnet
<i>writemsg1 - Scheduler/_02_CamWrite - *4(MSG)</i>			
writemsg1.Flags	16#0200	INT	
writemsg1.Flags.4	0	BOOL	
writemsg1.Flags.5	0	BOOL	
writemsg1.Flags.7	0	BOOL	
writemsg1.EW	0	BOOL	
writemsg1.ER	0	BOOL	
<i>writemsg1.ER - Scheduler/_02_CamWrite - 1(XIO), 3(XIC)</i>			
writemsg1.DN	0	BOOL	
<i>writemsg1.DN - Scheduler/_02_CamWrite - 1(XIC)</i>			
writemsg1.ST	0	BOOL	
writemsg1.EN	0	BOOL	
<i>writemsg1.EN - Scheduler/_02_CamWrite - 1(XIC), 2(XIO), 3(XIC)</i>			
writemsg1.TO	0	BOOL	
writemsg1.EN_CC	0	BOOL	
writemsg1.ERR	16#0000	INT	
writemsg1.EXERR	16#0000_0000	DINT	
writemsg1.ERR_SRC	0	SINT	
writemsg1.DN_LEN	0	INT	
writemsg1.REQ_LEN	34	INT	
writemsg1.DestinationLink	0	INT	
writemsg1.DestinationNode	8#000_000	INT	
writemsg1.SourceLink	0	INT	
writemsg1.Class	16#0076	INT	
writemsg1.Attribute	16#000a	INT	
writemsg1.Instance	72	DINT	
writemsg1.LocalIndex	0	DINT	
writemsg1.Channel	'\$00'	SINT	
writemsg1.Rack	8#000	SINT	
writemsg1.Group	0	SINT	
writemsg1.Slot	0	SINT	
writemsg1.Path	\$01\$03\$01\$01\$02\$01	STRING	
writemsg1.Path.LEN	6	DINT	
<i>writemsg1.Path.LEN - MainProgram/_21_WriteCam - *7(MOV)</i>			
writemsg1.Path.DATA		SINT	
writemsg1.RemoteIndex	0	DINT	
writemsg1.RemoteElement		STRING	
writemsg1.RemoteElement.LEN	0	DINT	
writemsg1.RemoteElement.DATA		SINT	

writemsg1 (Continued)			
writemsg1.UnconnectedTimeout	30000000	DINT	
writemsg1.ConnectionRate	7500000	DINT	
writemsg1.TimeoutMultiplier	0	SINT	
writestatus	1024	DINT	exmsg_dvnet
<i>writestatus - MainProgram/_21_WriteCam - *0(CLR), *3(MOV), *4(MOV)</i>			
<i>writestatus - Scheduler/_02_CamWrite - *1(MOV)</i>			

Name	Value	Data Type	Scope
Axis_nbr	2	SINT	exmsg_dvnet
Current Axis Number			
<i>Axis_nbr</i> - MainProgram/_20_ReadCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)			
<i>Axis_nbr</i> - MainProgram/_21_WriteCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)			
<i>Axis_nbr</i> - MainProgram/_22_generatecam - 0(CPT)			
<i>Axis_nbr</i> - MainProgram/MainRoutine - *3(MOV), *4(CLR), *5(ADD), *6(MOV), *7(CLR), *8(ADD), *9(MOV), 5(ADD), 5(GRT), 8(ADD), 8(GRT)			
Axis_Node_Nbrs		INT[5]	exmsg_dvnet
List of node #'s for Available Axis (size # of Axis + 2)			
<i>Axis_Node_Nbrs</i> - MainProgram/_20_ReadCam - 2(MOV)			
<i>Axis_Node_Nbrs</i> - MainProgram/_21_WriteCam - 2(MOV)			
<i>Axis_Node_Nbrs</i> - MainProgram/MainRoutine - *1(FLL), 5(GRT), 8(GRT)			
axis_ptr	0	DINT	exmsg_dvnet
pointer to axis index of cam array [receipt],[axis],[slot]			
<i>axis_ptr</i> - MainProgram/_20_ReadCam - *5(CPT)			
<i>axis_ptr</i> - MainProgram/_21_WriteCam - *5(CPT)			
<i>axis_ptr</i> - MainProgram/_22_generatecam - *0(CPT), 0(CPT)			
<i>axis_ptr</i> - Scheduler/_01_CamRead - *2(COP)			
<i>axis_ptr</i> - Scheduler/_02_CamWrite - 2(COP)			
cam_nbr	1	DINT	exmsg_dvnet
cam number in EcoDrive (1 or 2)			
<i>cam_nbr</i> - MainProgram/_20_ReadCam - 3(GRT), 3(LES), 6(CPT)			
<i>cam_nbr</i> - MainProgram/_21_WriteCam - 3(GRT), 3(LES), 6(CPT)			
<i>cam_nbr</i> - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV)			
camread	0	BOOL	exmsg_dvnet
Read Cam (in process)			
<i>camread</i> - MainProgram/_20_ReadCam - *8(OTL)			
<i>camread</i> - MainProgram/MainRoutine - 3(XIO), 5(XIO), 6(XIO), 8(XIO)			
<i>camread</i> - Scheduler/_01_CamRead - *3(OTU), *5(OTU), 0(XIO), 4(XIC), 6(XIC)			
<i>camread</i> - Scheduler/MainRoutine - 0(XIC)			
Cams		DINT[10,2,1024]	exmsg_dvnet
Motion Cam Memory Array [receipt],[axis],[item]			
<i>Cams</i> - MainProgram/_22_generatecam - *0(CPT)			
<i>Cams</i> - Scheduler/_01_CamRead - *2(COP)			
<i>Cams</i> - Scheduler/_02_CamWrite - 2(COP)			
camwrite	0	BOOL	exmsg_dvnet
Command flag to initiate cam Write (on while Write in process)			
<i>camwrite</i> - MainProgram/_21_WriteCam - *8(OTL)			
<i>camwrite</i> - MainProgram/MainRoutine - 3(XIO), 5(XIO), 6(XIO), 8(XIO)			
<i>camwrite</i> - Scheduler/_02_CamWrite - *1(OTU), *3(OTU), 0(XIO), 2(XIC), 4(XIC)			
<i>camwrite</i> - Scheduler/MainRoutine - 1(XIC)			
Class_Rd	118	INT	exmsg_dvnet
Alias For: readmsg1.Class			
Base Tag: readmsg1.Class			
<i>Class_Rd</i> - MainProgram/_20_ReadCam - *6(MOV)			
<i>Class_Rd</i> - MainProgram/_21_WriteCam - *6(MOV)			
<i>readmsg1</i> - Scheduler/_01_CamRead - *6(MSG)			
Instance_Rd	72	DINT	exmsg_dvnet
Alias For: readmsg1.Instance			
Base Tag: readmsg1.Instance			
<i>Instance_Rd</i> - MainProgram/_20_ReadCam - *6(CPT)			
<i>Instance_Rd</i> - MainProgram/_21_WriteCam - *6(CPT)			
<i>readmsg1</i> - Scheduler/_01_CamRead - *6(MSG)			
Local:1:O		AB:1769_SDN_364Bytes:O:0	exmsg_dvnet

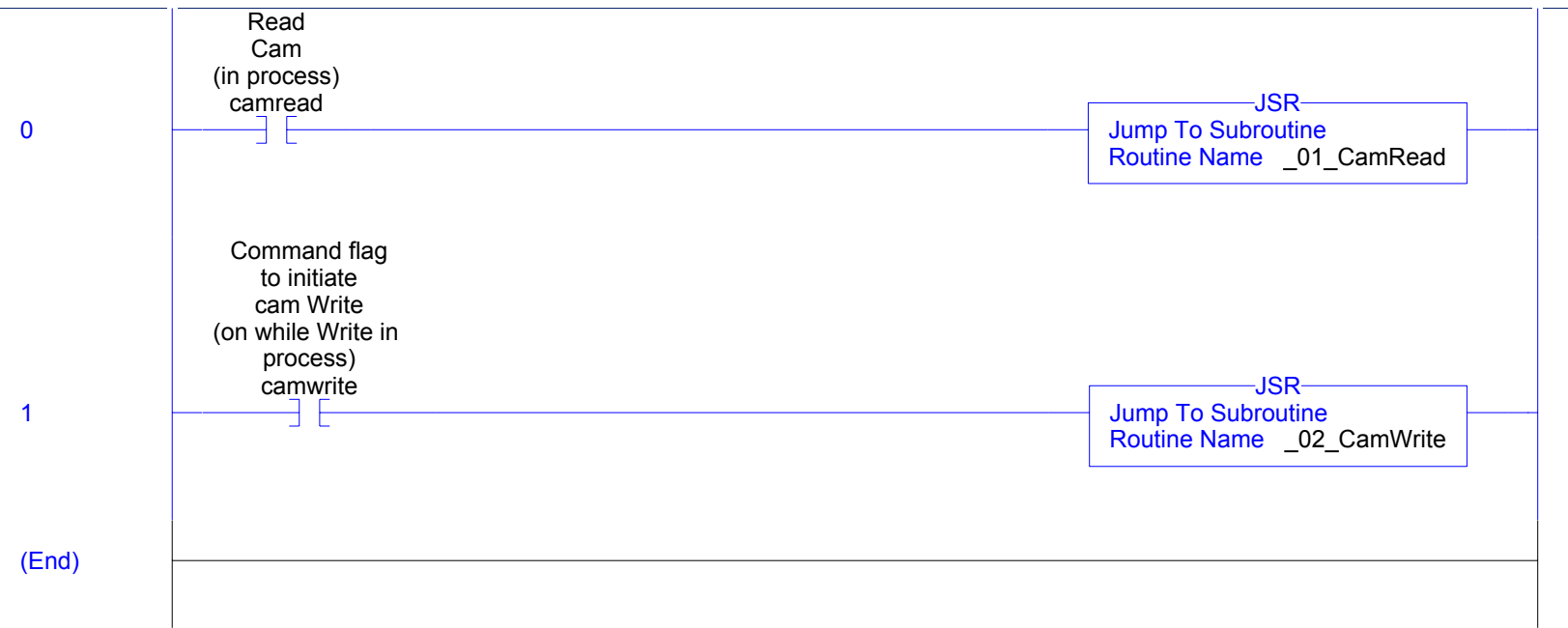
Local:1:O (Continued)			
Local:1:O.CommandRegister		AB:1769_SDN_CommandRegister:O:0	
Local:1:O.CommandRegister.Run	1	BOOL	
<i>Local:1:O.CommandRegister.Run - MainProgram/MainRoutine - *2(OTE)</i>			
makecam	0	BOOL	exmsg_dvnet
<i>makecam - MainProgram/_22_generatecam - *1(OTU), 0(XIC)</i>			
<i>makecam - MainProgram/MainRoutine - 9(XIC)</i>			
Node_Nbr	0	DINT	exmsg_dvnet
Devicenet Node corresponding to specified Asix			
<i>Node_Nbr - MainProgram/_20_ReadCam - *2(MOV), 2(LES), 7(MOV)</i>			
<i>Node_Nbr - MainProgram/_21_WriteCam - *2(MOV), 2(LES), 7(MOV)</i>			
oneshots		BOOL[32]	exmsg_dvnet
read1cam	0	BOOL	exmsg_dvnet
turn on to read cam from 1 axis			
<i>read1cam - MainProgram/MainRoutine - 3(XIC)</i>			
readAll	0	BOOL	exmsg_dvnet
Read All Axis (in process)			
<i>readAll - MainProgram/MainRoutine - *4(OTL), *5(OTU), 4(XIO), 5(XIC)</i>			
readallcams	0	BOOL	exmsg_dvnet
Turn on to read all axis			
<i>readallcams - MainProgram/MainRoutine - 4(XIC)</i>			
readDone	0	BOOL	exmsg_dvnet
<i>readDone - Scheduler/_01_CamRead - *1(OTE), 2(XIC), 3(XIC)</i>			
readInit	0	BOOL	exmsg_dvnet
initiate read message			
<i>readInit - Scheduler/_01_CamRead - *1(OTU), *4(OTL), *5(OTU), 1(XIC), 4(XIO), 6(XIC)</i>			
readmsg1		MESSAGE	exmsg_dvnet
<i>readmsg1 - Scheduler/_01_CamRead - *6(MSG)</i>			
readmsg1.Flags	16#0200	INT	
readmsg1.Flags.4	0	BOOL	
readmsg1.Flags.5	0	BOOL	
readmsg1.Flags.7	0	BOOL	
readmsg1.EW	0	BOOL	
readmsg1.ER	0	BOOL	
<i>readmsg1.ER - Scheduler/_01_CamRead - 1(XIO), 5(XIC)</i>			
readmsg1.DN	0	BOOL	
<i>readmsg1.DN - Scheduler/_01_CamRead - 1(XIC)</i>			
readmsg1.ST	0	BOOL	
readmsg1.EN	0	BOOL	
<i>readmsg1.EN - Scheduler/_01_CamRead - 1(XIC), 4(XIO), 5(XIC)</i>			
readmsg1.TO	0	BOOL	
readmsg1.EN_CC	0	BOOL	
readmsg1.ERR	16#0000	INT	
readmsg1.EXERR	16#0000_0000	DINT	
readmsg1.ERR_SRC	0	SINT	
readmsg1.DN_LEN	32	INT	
readmsg1.REQ_LEN	0	INT	
readmsg1.DestinationLink	0	INT	
readmsg1.DestinationNode	8#000_000	INT	
readmsg1.SourceLink	0	INT	
readmsg1.Class	16#0076	INT	
<i>Class_Rd - MainProgram/_20_ReadCam - *6(MOV)</i>			
<i>Class_Rd - MainProgram/_21_WriteCam - *6(MOV)</i>			
readmsg1.Attribute	16#0089	INT	

readmsg1 (Continued)		
<i>readmsg1.Attribute - Scheduler/_01_CamRead - *4(CPT)</i>		
readmsg1.Instance	72	DINT
<i>Instance_Rd - MainProgram/_20_ReadCam - *6(CPT)</i>		
<i>Instance_Rd - MainProgram/_21_WriteCam - *6(CPT)</i>		
readmsg1.LocalIndex	0	DINT
readmsg1.Channel	'\$00'	SINT
readmsg1.Rack	8#000	SINT
readmsg1.Group	0	SINT
readmsg1.Slot	0	SINT
readmsg1.Path	\$01\$03\$01\$01\$02\$01	STRING
readmsg1.Path.LEN	6	DINT
<i>readmsg1.Path.LEN - MainProgram/_20_ReadCam - *7(MOV)</i>		
readmsg1.Path.DATA		SINT
readmsg1.RemoteIndex	0	DINT
readmsg1.RemoteElement		STRING
readmsg1.RemoteElement.LEN	0	DINT
readmsg1.RemoteElement.DATA		SINT
readmsg1.UnconnectedTimeout	30000000	DINT
readmsg1.ConnectionRate	7500000	DINT
readmsg1.TimeoutMultiplier	0	SINT
readstatus		
	1024	DINT
<i>readstatus - MainProgram/_20_ReadCam - *0(CLR), *1(MOV), *2(MOV), *3(MOV), *4(MOV)</i>		
<i>readstatus - MainProgram/_21_WriteCam - *1(MOV), *2(MOV)</i>		
<i>readstatus - Scheduler/_01_CamRead - *3(MOV), *5(CPT)</i>		
<i>readstatus - Scheduler/_02_CamWrite - *3(CPT)</i>		
rec_buffer		
		DINT[8]
<i>rec_buffer - Scheduler/_01_CamRead - 2(COP)</i>		
recipe_nbr		
	5	DINT
Specify which set of cams to work		
<i>recipe_nbr - MainProgram/_20_ReadCam - 4(GRT), 4(LES), 5(CPT)</i>		
<i>recipe_nbr - MainProgram/_21_WriteCam - 4(GRT), 4(LES), 5(CPT)</i>		
<i>recipe_nbr - MainProgram/_22_generatecam - 0(CPT)</i>		
<i>recipe_nbr - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV), *9(MOV)</i>		
recipe_ptr		
	4	DINT
pointer to recipe index of cam array [recipe],[axis],[slot]		
<i>recipe_ptr - MainProgram/_20_ReadCam - *5(CPT)</i>		
<i>recipe_ptr - MainProgram/_21_WriteCam - *5(CPT)</i>		
<i>recipe_ptr - MainProgram/_22_generatecam - *0(CPT), 0(CPT)</i>		
<i>recipe_ptr - Scheduler/_01_CamRead - *2(COP)</i>		
<i>recipe_ptr - Scheduler/_02_CamWrite - 2(COP)</i>		
Recipes_Avail		
	10	DINT
total number of recipes available		
<i>Recipes_Avail - MainProgram/_20_ReadCam - 4(GRT)</i>		
<i>Recipes_Avail - MainProgram/_21_WriteCam - 4(GRT)</i>		
<i>Recipes_Avail - MainProgram/MainRoutine - *0(MOV)</i>		
SDM_slot		
	1	SINT
Slot # of SDM module on I/O bus		
<i>SDM_slot - MainProgram/_20_ReadCam - 7(MOV)</i>		
<i>SDM_slot - MainProgram/_21_WriteCam - 7(MOV)</i>		
<i>SDM_slot - MainProgram/MainRoutine - *0(MOV)</i>		
slot		
	1	DINT
pointer to the appropriate slot in the cam item 0-1023		
<i>slot - MainProgram/_20_ReadCam - *8(CLR)</i>		
<i>slot - MainProgram/_21_WriteCam - *8(CLR)</i>		
<i>slot - MainProgram/_22_generatecam - 0(CPT), 1(GEQ)</i>		
<i>slot - MainProgram/MainRoutine - *9(FOR)</i>		

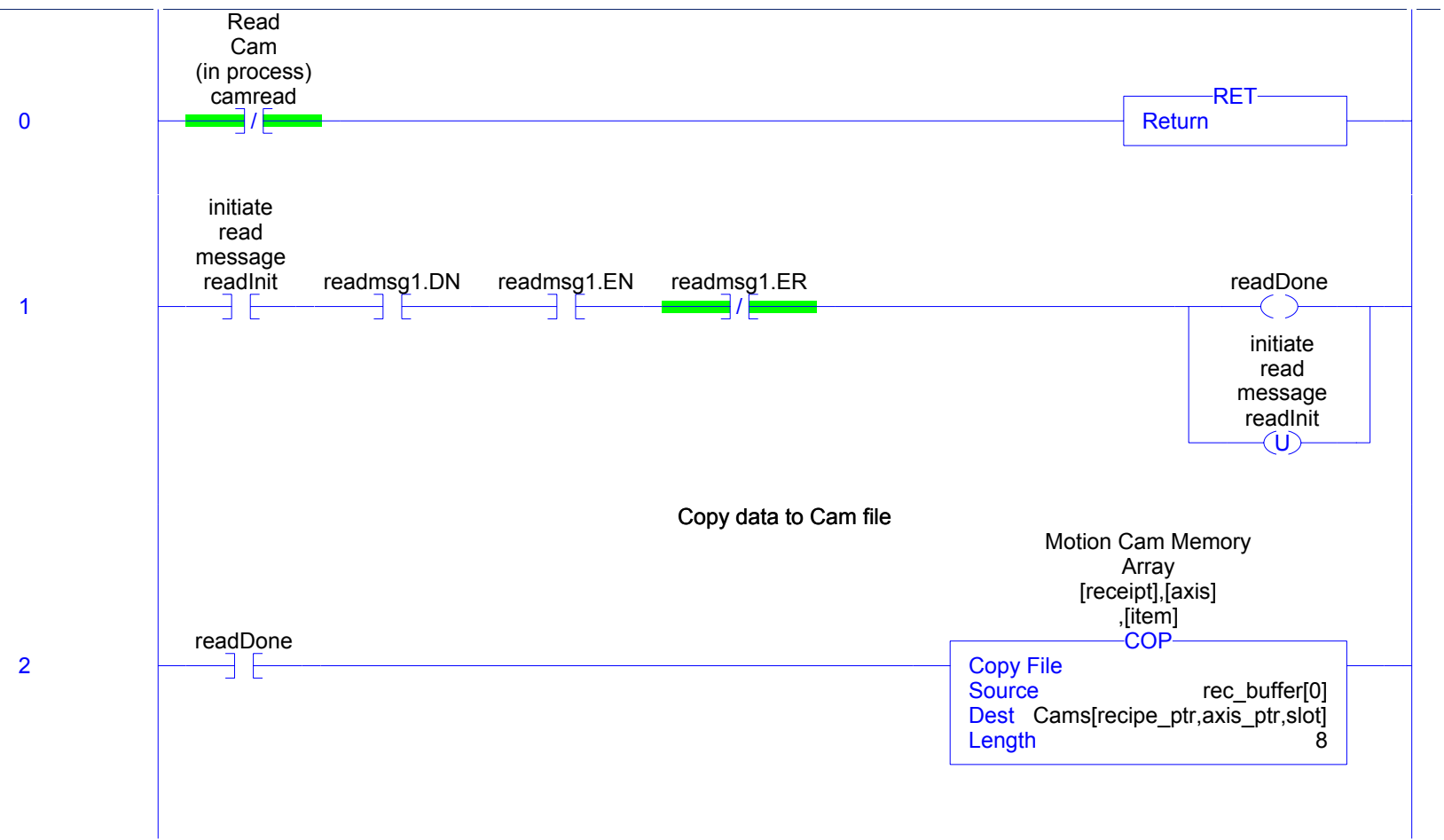
slot (Continued)			
<i>slot - Scheduler/_01_CamRead - *2(COP), *3(ADD), 3(ADD), 3(GEQ), 3(MOV), 4(CPT), 5(CPT)</i>			
<i>slot - Scheduler/_02_CamWrite - *1(ADD), 1(ADD), 1(GEQ), 1(MOV), 2(ADD), 2(COP), 3(CPT)</i>			
write_buffer		INT[128]	exmsg_dvnet
integer buffer contains data written to drive			
<i>write_buffer - Scheduler/_02_CamWrite - *2(COP)</i>			
writelcam	0	BOOL	exmsg_dvnet
Turn on to write cam to 1 axis			
<i>writelcam - MainProgram/MainRoutine - 6(XIC)</i>			
writeall	0	BOOL	exmsg_dvnet
Write All Axis (in process)			
<i>writeall - MainProgram/MainRoutine - *7(OTL), *8(OTU), 7(XIO), 8(XIC)</i>			
writeallcams	0	BOOL	exmsg_dvnet
Turn on to write cams to all axis			
<i>writeallcams - MainProgram/MainRoutine - 7(XIC)</i>			
writelnit	0	BOOL	exmsg_dvnet
initiate write message			
<i>writelnit - Scheduler/_02_CamWrite - *0(OTU), *1(OTU), *2(OTL), *3(OTU), 1(XIC), 2(XIO), 4(XIC)</i>			
writemsg1		MESSAGE	exmsg_dvnet
<i>writemsg1 - Scheduler/_02_CamWrite - *4(MSG)</i>			
writemsg1.Flags	16#0200	INT	
writemsg1.Flags.4	0	BOOL	
writemsg1.Flags.5	0	BOOL	
writemsg1.Flags.7	0	BOOL	
writemsg1.EW	0	BOOL	
writemsg1.ER	0	BOOL	
<i>writemsg1.ER - Scheduler/_02_CamWrite - 1(XIO), 3(XIC)</i>			
writemsg1.DN	0	BOOL	
<i>writemsg1.DN - Scheduler/_02_CamWrite - 1(XIC)</i>			
writemsg1.ST	0	BOOL	
writemsg1.EN	0	BOOL	
<i>writemsg1.EN - Scheduler/_02_CamWrite - 1(XIC), 2(XIO), 3(XIC)</i>			
writemsg1.TO	0	BOOL	
writemsg1.EN_CC	0	BOOL	
writemsg1.ERR	16#0000	INT	
writemsg1.EXERR	16#0000_0000	DINT	
writemsg1.ERR_SRC	0	SINT	
writemsg1.DN_LEN	0	INT	
writemsg1.REQ_LEN	34	INT	
writemsg1.DestinationLink	0	INT	
writemsg1.DestinationNode	8#000_000	INT	
writemsg1.SourceLink	0	INT	
writemsg1.Class	16#0076	INT	
writemsg1.Attribute	16#000a	INT	
writemsg1.Instance	72	DINT	
writemsg1.LocalIndex	0	DINT	
writemsg1.Channel	'\$00'	SINT	
writemsg1.Rack	8#000	SINT	
writemsg1.Group	0	SINT	
writemsg1.Slot	0	SINT	
writemsg1.Path	\$01\$03\$01\$01\$02\$01	STRING	
writemsg1.Path.LEN	6	DINT	
<i>writemsg1.Path.LEN - MainProgram/_21_WriteCam - *7(MOV)</i>			
writemsg1.Path.DATA		SINT	
writemsg1.RemoteIndex	0	DINT	
writemsg1.RemoteElement		STRING	
writemsg1.RemoteElement.LEN	0	DINT	
writemsg1.RemoteElement.DATA		SINT	

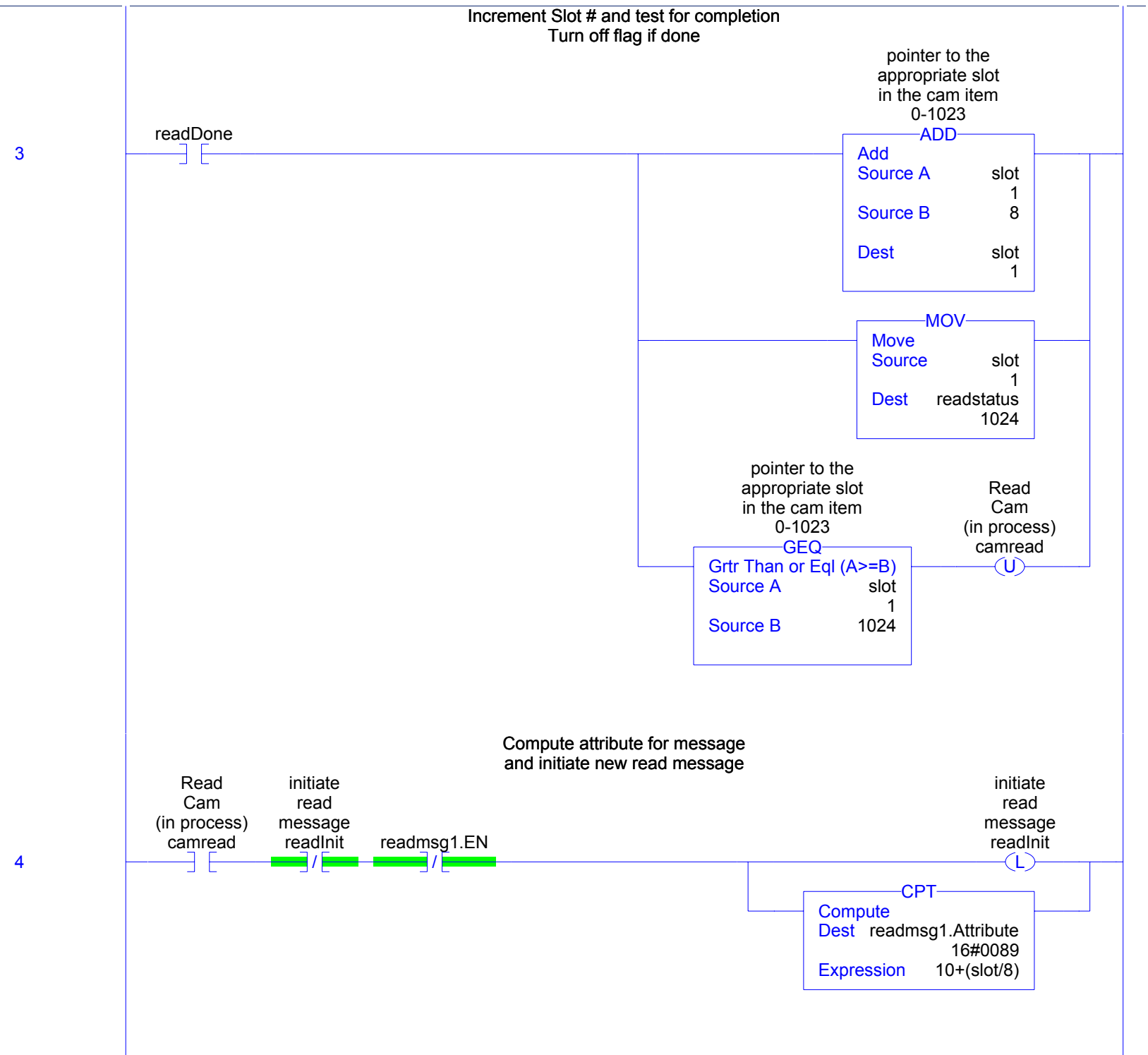
writemsg1 (Continued)			
writemsg1.UnconnectedTimeout	30000000	DINT	
writemsg1.ConnectionRate	7500000	DINT	
writemsg1.TimeoutMultiplier	0	SINT	
writestatus	1024	DINT	exmsg_dvnet
<i>writestatus - MainProgram/_21_WriteCam - *0(CLR), *3(MOV), *4(MOV)</i>			
<i>writestatus - Scheduler/_02_CamWrite - *1(MOV)</i>			

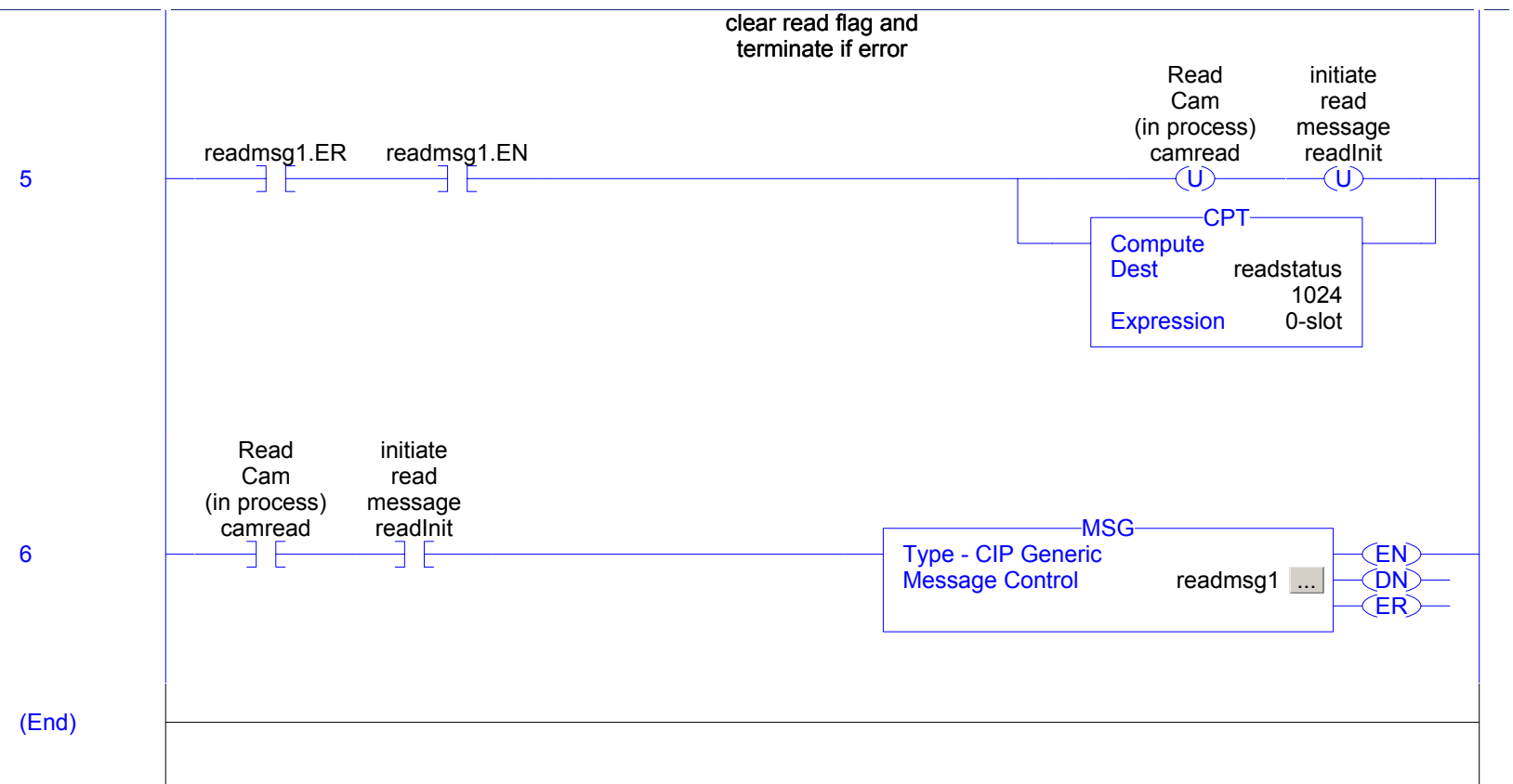
Name	Value	Data Type	Scope
No Tags Exist			



Name	Value	Data Type	Scope
camread	0	BOOL	exmsg_dvnet
Read Cam (in process)			
camread - MainProgram/_20_ReadCam - *8(OTL)			
camread - MainProgram/MainRoutine - 3(XIO), 5(XIO), 6(XIO), 8(XIO)			
camread - Scheduler/_01_CamRead - *3(OTU), *5(OTU), 0(XIO), 4(XIC), 6(XIC)			
camread - Scheduler/MainRoutine - 0(XIC)			
camwrite	0	BOOL	exmsg_dvnet
Command flag to initiate cam Write (on while Write in process)			
camwrite - MainProgram/_21_WriteCam - *8(OTL)			
camwrite - MainProgram/MainRoutine - 3(XIO), 5(XIO), 6(XIO), 8(XIO)			
camwrite - Scheduler/_02_CamWrite - *1(OTU), *3(OTU), 0(XIO), 2(XIC), 4(XIC)			
camwrite - Scheduler/MainRoutine - 1(XIC)			

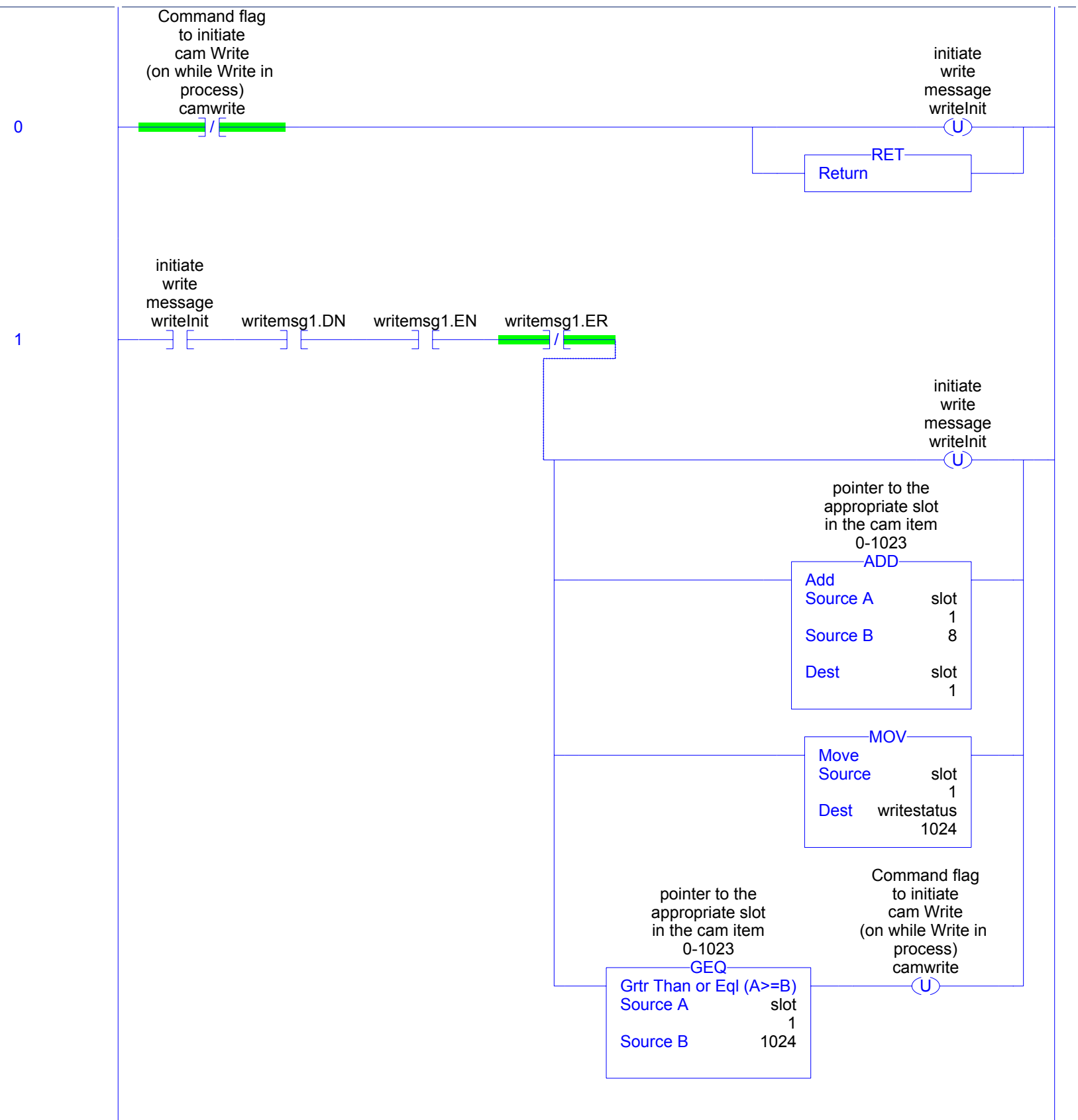


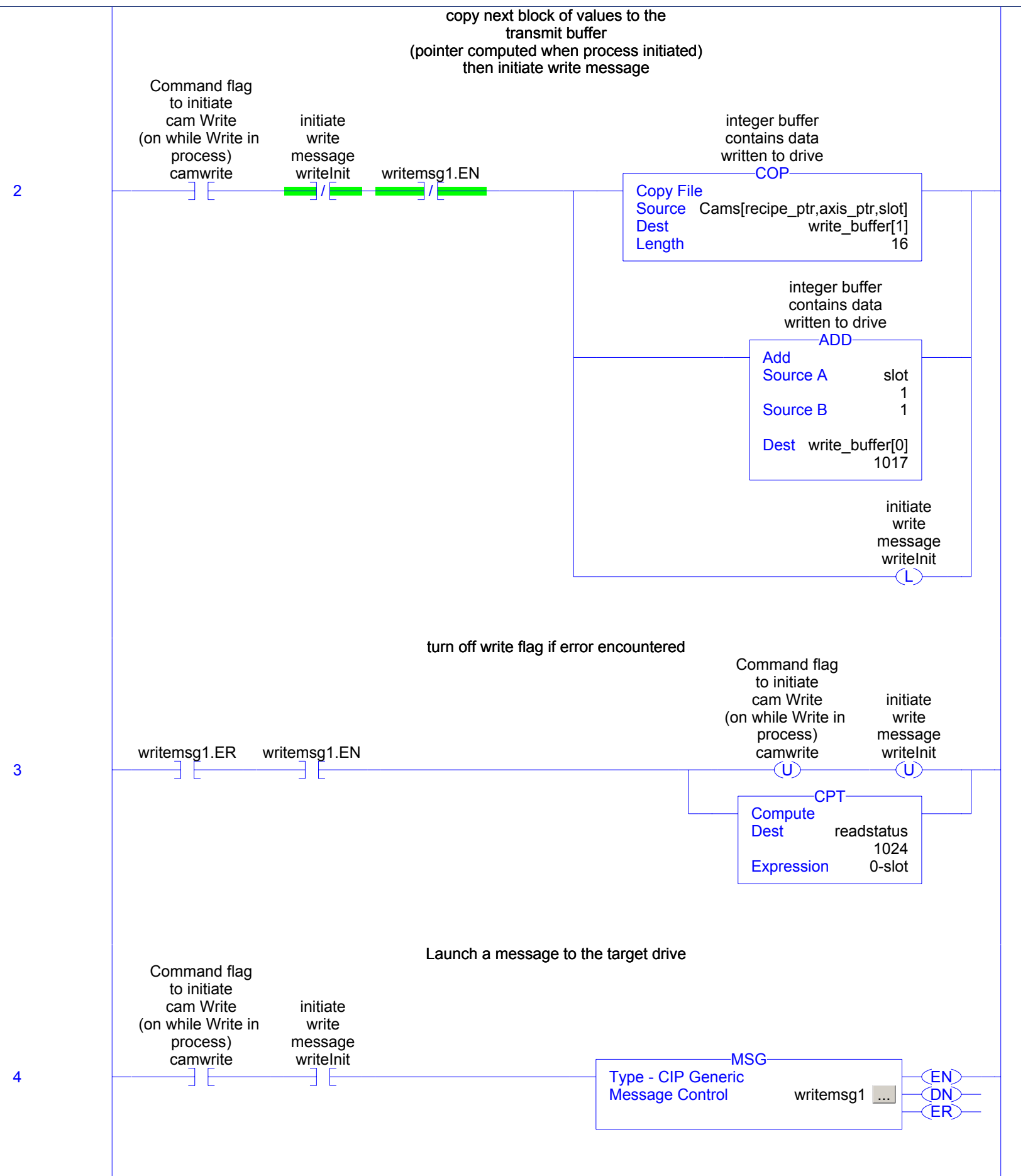




Name	Value	Data Type	Scope
axis_ptr	0	DINT	exmsg_dvnet
pointer to axis index of cam array [receipt],[axis],[slot] <i>axis_ptr</i> - <i>MainProgram/_20_ReadCam</i> - *5(CPT) <i>axis_ptr</i> - <i>MainProgram/_21_WriteCam</i> - *5(CPT) <i>axis_ptr</i> - <i>MainProgram/_22_generatecam</i> - *0(CPT), 0(CPT) <i>axis_ptr</i> - <i>Scheduler/_01_CamRead</i> - *2(COP) <i>axis_ptr</i> - <i>Scheduler/_02_CamWrite</i> - 2(COP)			
camread	0	BOOL	exmsg_dvnet
Read Cam (in process) <i>camread</i> - <i>MainProgram/_20_ReadCam</i> - *8(OTL) <i>camread</i> - <i>MainProgram/MainRoutine</i> - 3(XIO), 5(XIO), 6(XIO), 8(XIO) <i>camread</i> - <i>Scheduler/_01_CamRead</i> - *3(OTU), *5(OTU), 0(XIO), 4(XIC), 6(XIC) <i>camread</i> - <i>Scheduler/MainRoutine</i> - 0(XIC)			
Cams		DINT[10,2,1024]	exmsg_dvnet
Motion Cam Memory Array [receipt],[axis],[item] <i>Cams</i> - <i>MainProgram/_22_generatecam</i> - *0(CPT) <i>Cams</i> - <i>Scheduler/_01_CamRead</i> - *2(COP) <i>Cams</i> - <i>Scheduler/_02_CamWrite</i> - 2(COP)			
readDone	0	BOOL	exmsg_dvnet
<i>readDone</i> - <i>Scheduler/_01_CamRead</i> - *1(OTE), 2(XIC), 3(XIC)			
readInit	0	BOOL	exmsg_dvnet
initiate read message <i>readInit</i> - <i>Scheduler/_01_CamRead</i> - *1(OTU), *4(OTL), *5(OTU), 1(XIC), 4(XIO), 6(XIC)			
readmsg1		MESSAGE	exmsg_dvnet
<i>readmsg1</i> - <i>Scheduler/_01_CamRead</i> - *6(MSG)			
readmsg1.Flags	16#0200	INT	
readmsg1.Flags.4	0	BOOL	
readmsg1.Flags.5	0	BOOL	
readmsg1.Flags.7	0	BOOL	
readmsg1.EW	0	BOOL	
readmsg1.ER	0	BOOL	
<i>readmsg1.ER</i> - <i>Scheduler/_01_CamRead</i> - 1(XIO), 5(XIC)			
readmsg1.DN	0	BOOL	
<i>readmsg1.DN</i> - <i>Scheduler/_01_CamRead</i> - 1(XIC)			
readmsg1.ST	0	BOOL	
readmsg1.EN	0	BOOL	
<i>readmsg1.EN</i> - <i>Scheduler/_01_CamRead</i> - 1(XIC), 4(XIO), 5(XIC)			
readmsg1.TO	0	BOOL	
readmsg1.EN_CC	0	BOOL	
readmsg1.ERR	16#0000	INT	
readmsg1.EXERR	16#0000_0000	DINT	
readmsg1.ERR_SRC	0	SINT	
readmsg1.DN_LEN	32	INT	
readmsg1.REQ_LEN	0	INT	
readmsg1.DestinationLink	0	INT	
readmsg1.DestinationNode	8#000_000	INT	
readmsg1.SourceLink	0	INT	
readmsg1.Class	16#0076	INT	
<i>Class_Rd</i> - <i>MainProgram/_20_ReadCam</i> - *6(MOV) <i>Class_Rd</i> - <i>MainProgram/_21_WriteCam</i> - *6(MOV)			
readmsg1.Attribute	16#0089	INT	
<i>readmsg1.Attribute</i> - <i>Scheduler/_01_CamRead</i> - *4(CPT)			
readmsg1.Instance	72	DINT	
<i>Instance_Rd</i> - <i>MainProgram/_20_ReadCam</i> - *6(CPT) <i>Instance_Rd</i> - <i>MainProgram/_21_WriteCam</i> - *6(CPT)			
readmsg1.LocalIndex	0	DINT	
readmsg1.Channel	'\$00'	SINT	
readmsg1.Rack	8#000	SINT	

readmsg1 (Continued)			
readmsg1.Group	0	SINT	
readmsg1.Slot	0	SINT	
readmsg1.Path	\$01\$03\$01\$01\$02\$01	STRING	
readmsg1.Path.LEN	6	DINT	
<i>readmsg1.Path.LEN - MainProgram/_20_ReadCam - *7(MOV)</i>			
readmsg1.Path.DATA		SINT	
readmsg1.RemoteIndex	0	DINT	
readmsg1.RemoteElement		STRING	
readmsg1.RemoteElement.LEN	0	DINT	
readmsg1.RemoteElement.DATA		SINT	
readmsg1.UnconnectedTimeout	30000000	DINT	
readmsg1.ConnectionRate	7500000	DINT	
readmsg1.TimeoutMultiplier	0	SINT	
readstatus			
	1024	DINT	exmsg_dvnet
<i>readstatus - MainProgram/_20_ReadCam - *0(CLR), *1(MOV), *2(MOV), *3(MOV), *4(MOV)</i>			
<i>readstatus - MainProgram/_21_WriteCam - *1(MOV), *2(MOV)</i>			
<i>readstatus - Scheduler/_01_CamRead - *3(MOV), *5(CPT)</i>			
<i>readstatus - Scheduler/_02_CamWrite - *3(CPT)</i>			
rec_buffer			
		DINT[8]	exmsg_dvnet
<i>rec_buffer - Scheduler/_01_CamRead - 2(COP)</i>			
recipe_ptr			
	4	DINT	exmsg_dvnet
pointer to recipe index of cam array [recipe],[axis],[slot]			
<i>recipe_ptr - MainProgram/_20_ReadCam - *5(CPT)</i>			
<i>recipe_ptr - MainProgram/_21_WriteCam - *5(CPT)</i>			
<i>recipe_ptr - MainProgram/_22_generatecam - *0(CPT), 0(CPT)</i>			
<i>recipe_ptr - Scheduler/_01_CamRead - *2(COP)</i>			
<i>recipe_ptr - Scheduler/_02_CamWrite - 2(COP)</i>			
slot			
	1	DINT	exmsg_dvnet
pointer to the appropriate slot in the cam item 0-1023			
<i>slot - MainProgram/_20_ReadCam - *8(CLR)</i>			
<i>slot - MainProgram/_21_WriteCam - *8(CLR)</i>			
<i>slot - MainProgram/_22_generatecam - 0(CPT), 1(GEQ)</i>			
<i>slot - MainProgram/MainRoutine - *9(FOR)</i>			
<i>slot - Scheduler/_01_CamRead - *2(COP), *3(ADD), 3(ADD), 3(GEQ), 3(MOV), 4(CPT), 5(CPT)</i>			
<i>slot - Scheduler/_02_CamWrite - *1(ADD), 1(ADD), 1(GEQ), 1(MOV), 2(ADD), 2(COP), 3(CPT)</i>			



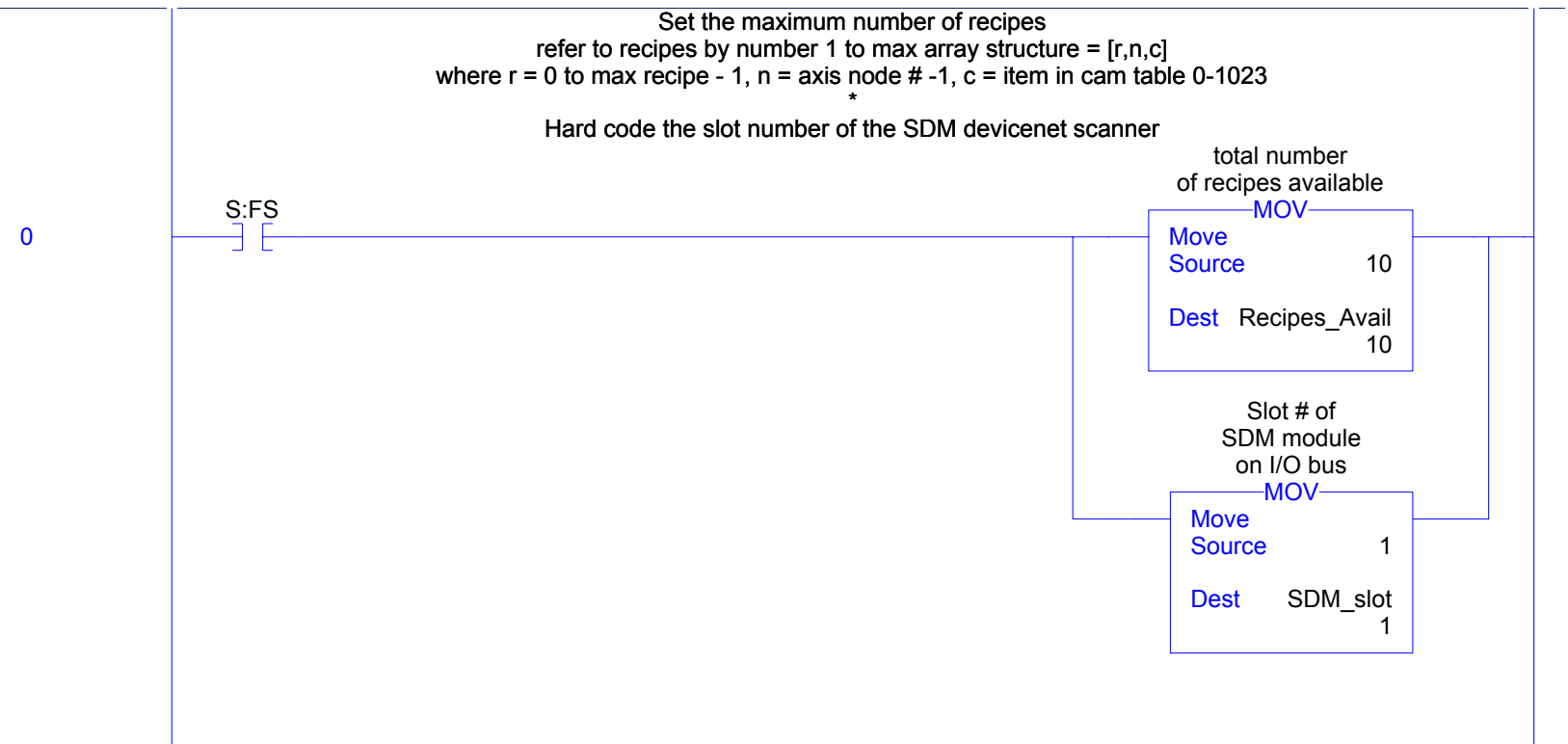


(End)

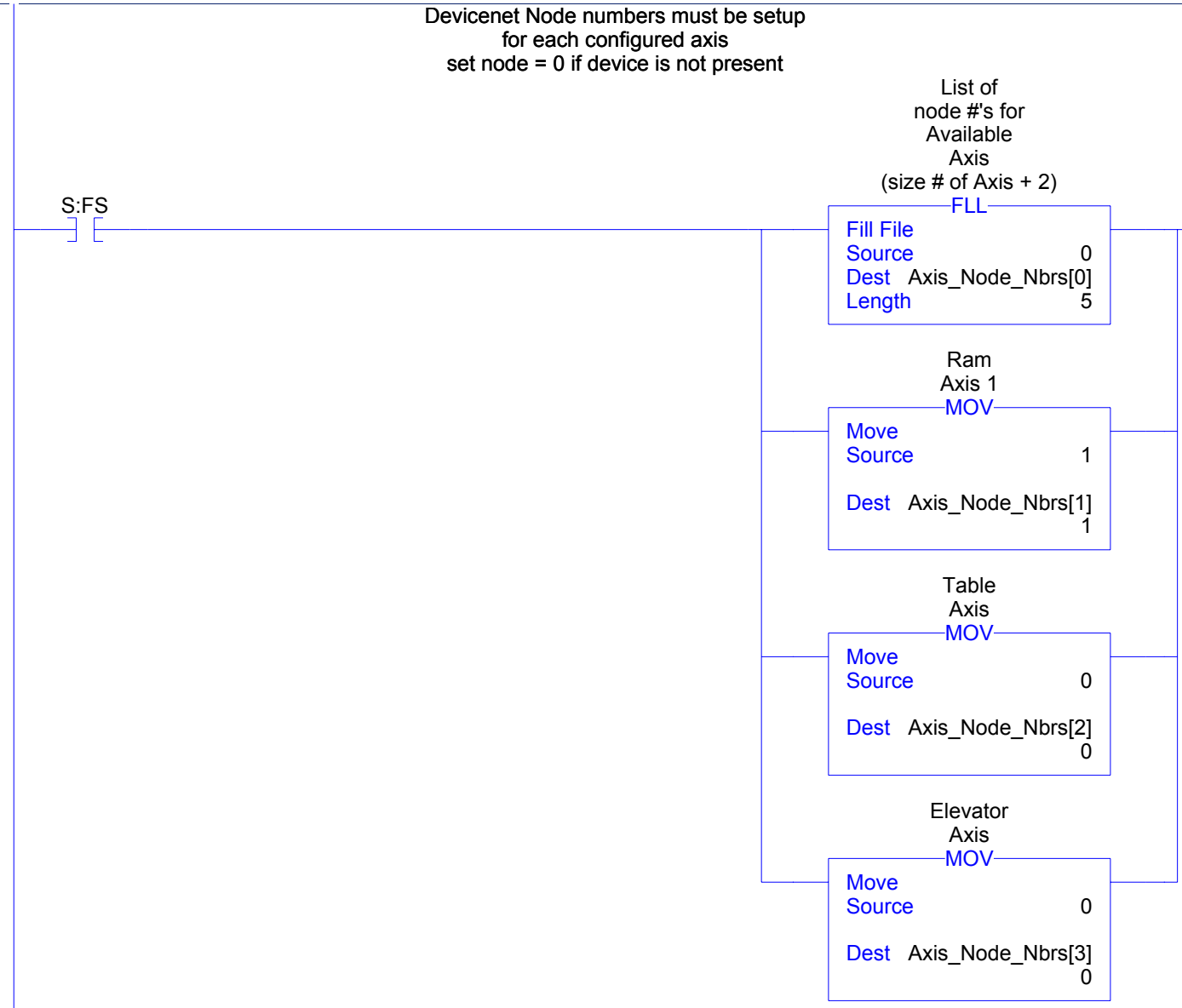
Name	Value	Data Type	Scope
axis_ptr	0	DINT	exmsg_dvnet
pointer to axis index of cam array [receipt],[axis],[slot] <i>axis_ptr</i> - <i>MainProgram/_20_ReadCam</i> - *5(CPT) <i>axis_ptr</i> - <i>MainProgram/_21_WriteCam</i> - *5(CPT) <i>axis_ptr</i> - <i>MainProgram/_22_generatecam</i> - *0(CPT), 0(CPT) <i>axis_ptr</i> - <i>Scheduler/_01_CamRead</i> - *2(COP) <i>axis_ptr</i> - <i>Scheduler/_02_CamWrite</i> - 2(COP)			
Cams		DINT[10,2,1024]	exmsg_dvnet
Motion Cam Memory Array [receipt],[axis],[item] <i>Cams</i> - <i>MainProgram/_22_generatecam</i> - *0(CPT) <i>Cams</i> - <i>Scheduler/_01_CamRead</i> - *2(COP) <i>Cams</i> - <i>Scheduler/_02_CamWrite</i> - 2(COP)			
camwrite	0	BOOL	exmsg_dvnet
Command flag to initiate cam Write (on while Write in process) <i>camwrite</i> - <i>MainProgram/_21_WriteCam</i> - *8(OTL) <i>camwrite</i> - <i>MainProgram/MainRoutine</i> - 3(XIO), 5(XIO), 6(XIO), 8(XIO) <i>camwrite</i> - <i>Scheduler/_02_CamWrite</i> - *1(OTU), *3(OTU), 0(XIO), 2(XIC), 4(XIC) <i>camwrite</i> - <i>Scheduler/MainRoutine</i> - 1(XIC)			
readstatus	1024	DINT	exmsg_dvnet
<i>readstatus</i> - <i>MainProgram/_20_ReadCam</i> - *0(CLR), *1(MOV), *2(MOV), *3(MOV), *4(MOV) <i>readstatus</i> - <i>MainProgram/_21_WriteCam</i> - *1(MOV), *2(MOV) <i>readstatus</i> - <i>Scheduler/_01_CamRead</i> - *3(MOV), *5(CPT) <i>readstatus</i> - <i>Scheduler/_02_CamWrite</i> - *3(CPT)			
recipe_ptr	4	DINT	exmsg_dvnet
pointer to recipe index of cam array [recipe],[axis],[slot] <i>recipe_ptr</i> - <i>MainProgram/_20_ReadCam</i> - *5(CPT) <i>recipe_ptr</i> - <i>MainProgram/_21_WriteCam</i> - *5(CPT) <i>recipe_ptr</i> - <i>MainProgram/_22_generatecam</i> - *0(CPT), 0(CPT) <i>recipe_ptr</i> - <i>Scheduler/_01_CamRead</i> - *2(COP) <i>recipe_ptr</i> - <i>Scheduler/_02_CamWrite</i> - 2(COP)			
slot	1	DINT	exmsg_dvnet
pointer to the appropriate slot in the cam item 0-1023 <i>slot</i> - <i>MainProgram/_20_ReadCam</i> - *8(CLR) <i>slot</i> - <i>MainProgram/_21_WriteCam</i> - *8(CLR) <i>slot</i> - <i>MainProgram/_22_generatecam</i> - 0(CPT), 1(GEQ) <i>slot</i> - <i>MainProgram/MainRoutine</i> - *9(FOR) <i>slot</i> - <i>Scheduler/_01_CamRead</i> - *2(COP), *3(ADD), 3(ADD), 3(GEQ), 3(MOV), 4(CPT), 5(CPT) <i>slot</i> - <i>Scheduler/_02_CamWrite</i> - *1(ADD), 1(ADD), 1(GEQ), 1(MOV), 2(ADD), 2(COP), 3(CPT)			
write_buffer		INT[128]	exmsg_dvnet
integer buffer contains data written to drive <i>write_buffer</i> - <i>Scheduler/_02_CamWrite</i> - *2(COP)			
writelnit	0	BOOL	exmsg_dvnet
initiate write message <i>writelnit</i> - <i>Scheduler/_02_CamWrite</i> - *0(OTU), *1(OTU), *2(OTL), *3(OTU), 1(XIC), 2(XIO), 4(XIC)			
writemsg1		MESSAGE	exmsg_dvnet
<i>writemsg1</i> - <i>Scheduler/_02_CamWrite</i> - *4(MSG)			
writemsg1.Flags	16#0200	INT	
writemsg1.Flags.4	0	BOOL	
writemsg1.Flags.5	0	BOOL	
writemsg1.Flags.7	0	BOOL	
writemsg1.EW	0	BOOL	
writemsg1.ER	0	BOOL	
<i>writemsg1.ER</i> - <i>Scheduler/_02_CamWrite</i> - 1(XIO), 3(XIC)			
writemsg1.DN	0	BOOL	
<i>writemsg1.DN</i> - <i>Scheduler/_02_CamWrite</i> - 1(XIC)			

writemsg1 (Continued)		
writemsg1.ST	0	BOOL
writemsg1.EN	0	BOOL
<i>writemsg1.EN - Scheduler/_02_CamWrite - 1(XIC), 2(XIO), 3(XIC)</i>		
writemsg1.TO	0	BOOL
writemsg1.EN_CC	0	BOOL
writemsg1.ERR	16#0000	INT
writemsg1.EXERR	16#0000_0000	DINT
writemsg1.ERR_SRC	0	SINT
writemsg1.DN_LEN	0	INT
writemsg1.REQ_LEN	34	INT
writemsg1.DestinationLink	0	INT
writemsg1.DestinationNode	8#000_000	INT
writemsg1.SourceLink	0	INT
writemsg1.Class	16#0076	INT
writemsg1.Attribute	16#000a	INT
writemsg1.Instance	72	DINT
writemsg1.LocalIndex	0	DINT
writemsg1.Channel	'\$00'	SINT
writemsg1.Rack	8#000	SINT
writemsg1.Group	0	SINT
writemsg1.Slot	0	SINT
writemsg1.Path	\$01\$03\$01\$01\$02\$01	STRING
writemsg1.Path.LEN	6	DINT
<i>writemsg1.Path.LEN - MainProgram/_21_WriteCam - *7(MOV)</i>		
writemsg1.Path.DATA		SINT
writemsg1.RemoteIndex	0	DINT
writemsg1.RemoteElement		STRING
writemsg1.RemoteElement.LEN	0	DINT
writemsg1.RemoteElement.DATA		SINT
writemsg1.UnconnectedTimeout	30000000	DINT
writemsg1.ConnectionRate	7500000	DINT
writemsg1.TimeoutMultiplier	0	SINT
writestatus	1024	DINT
<i>writestatus - MainProgram/_21_WriteCam - *0(CLR), *3(MOV), *4(MOV)</i>		exmsg_dvnet
<i>writestatus - Scheduler/_02_CamWrite - *1(MOV)</i>		

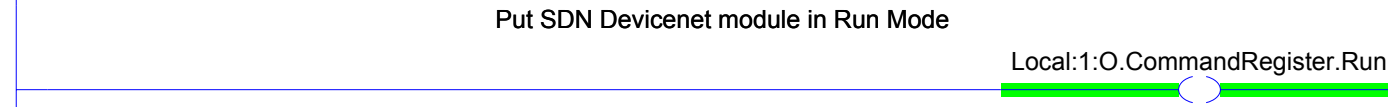
Name	Value	Data Type	Scope
No Used Tags Exist			

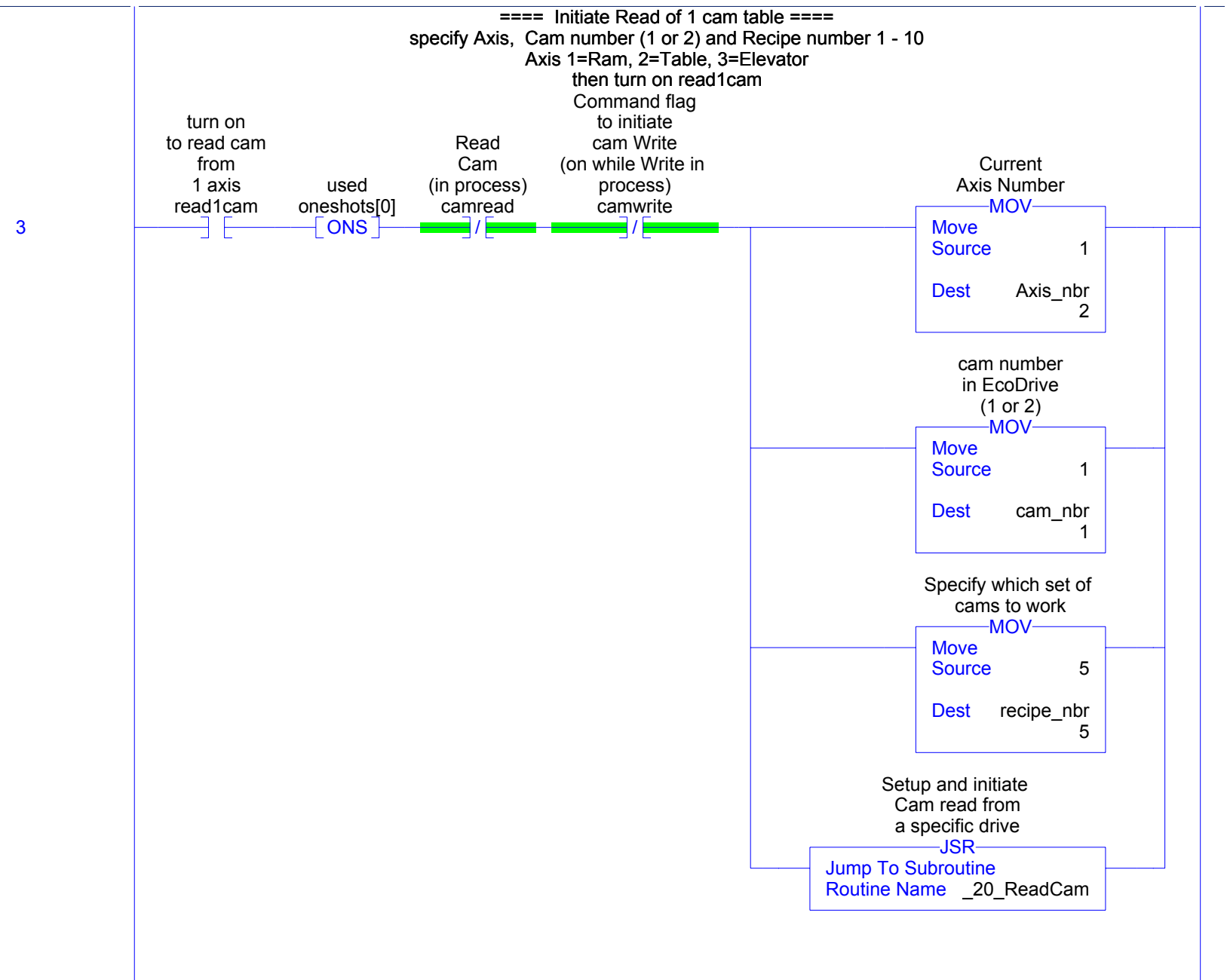


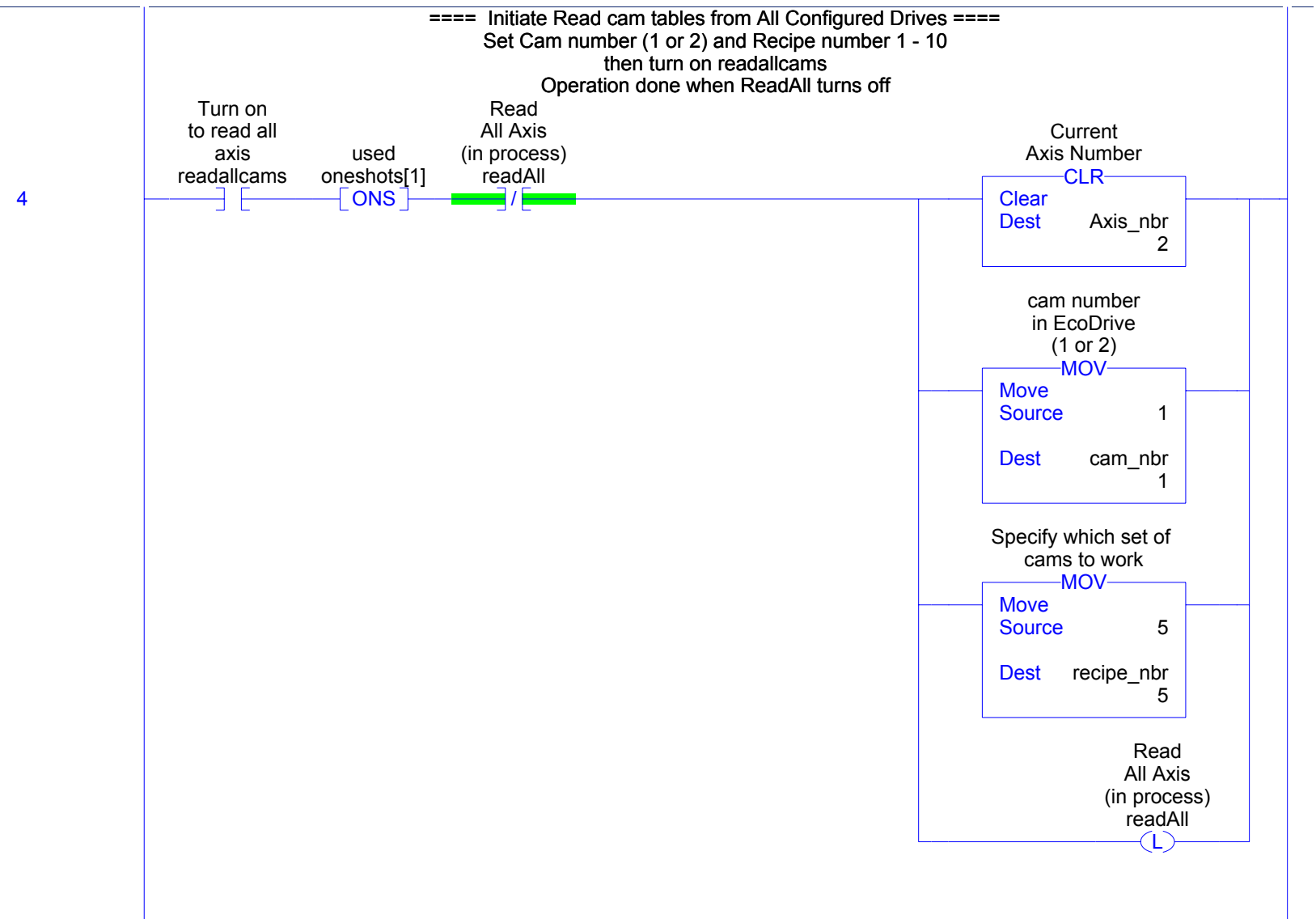
1

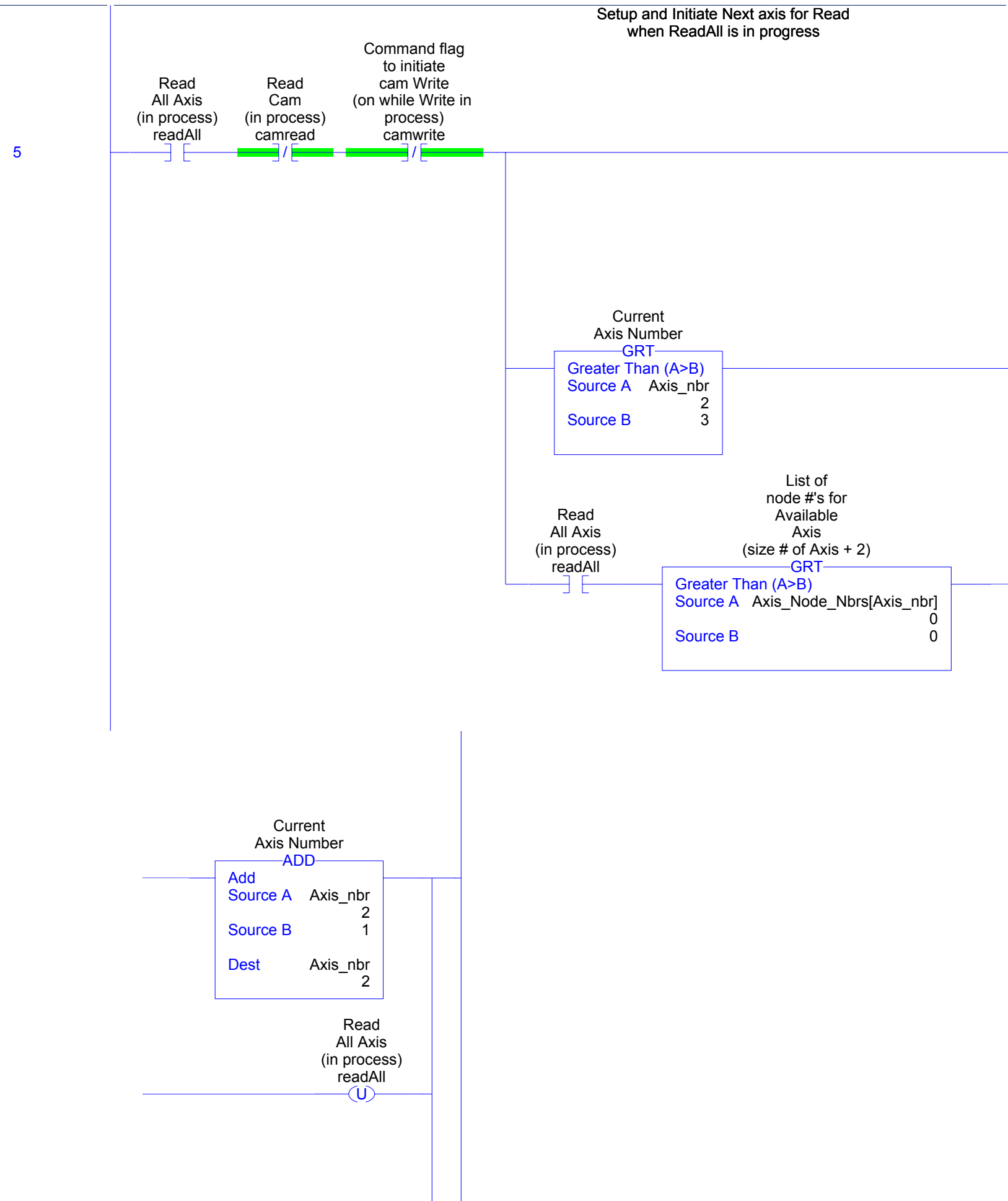


2

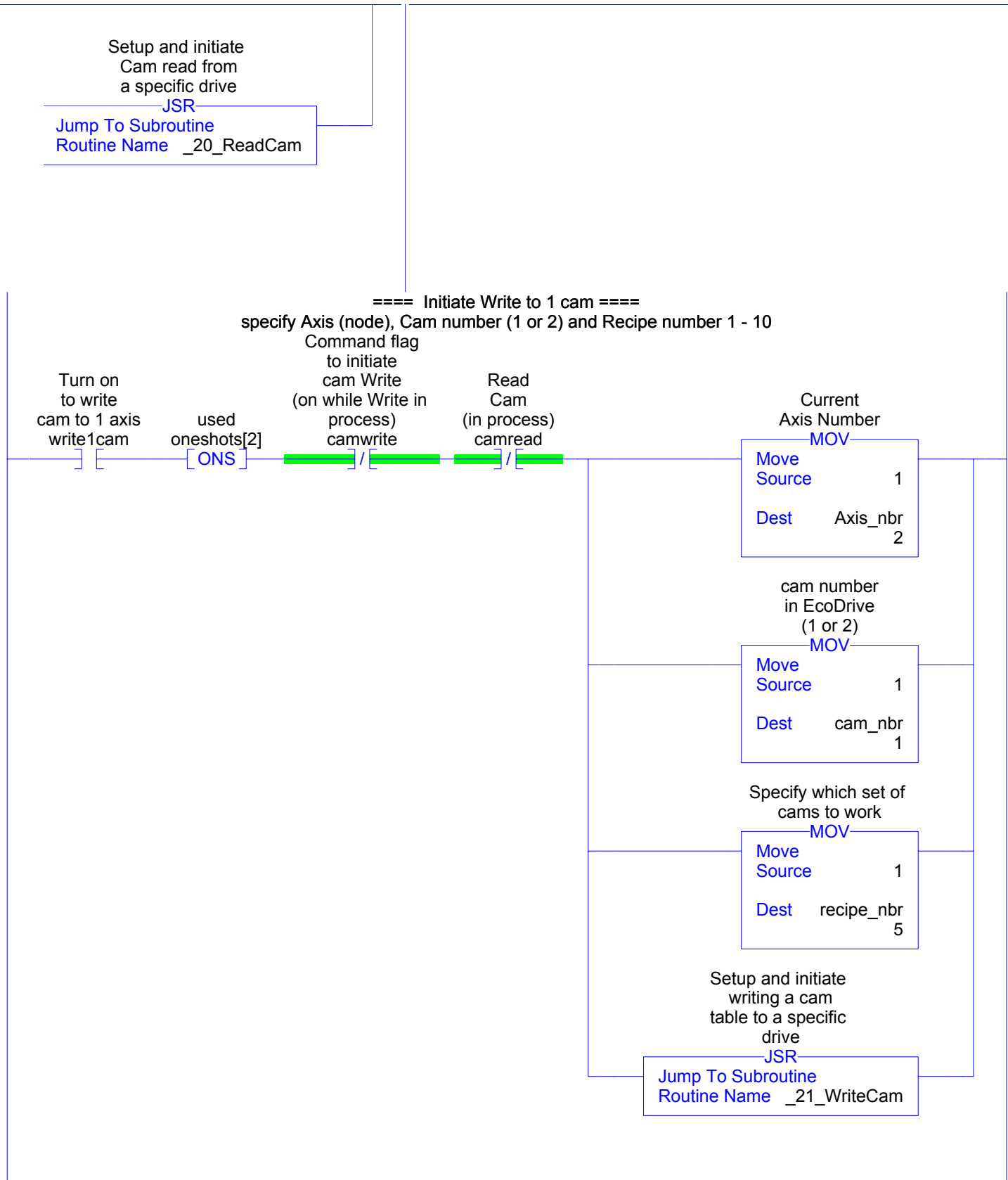


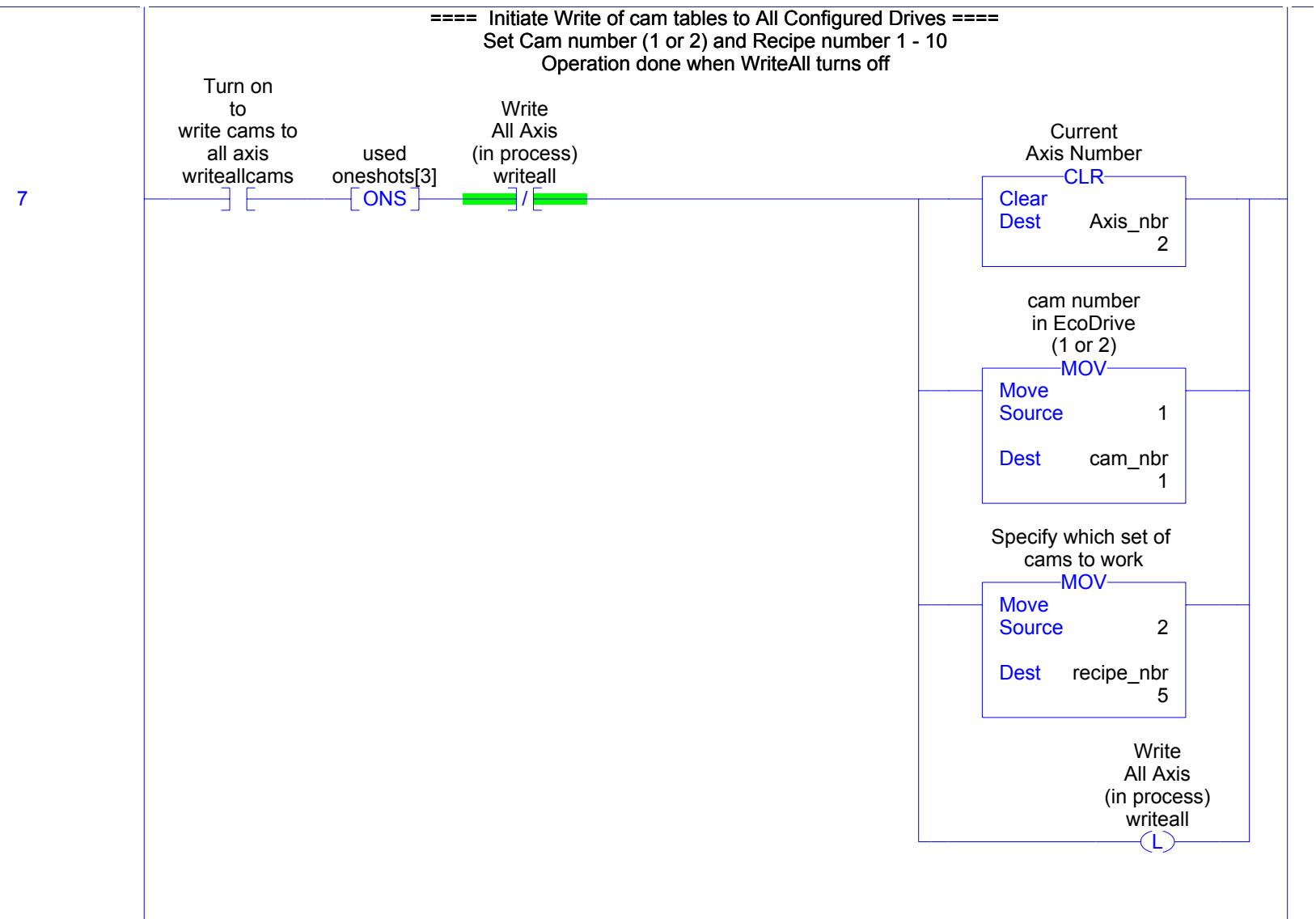


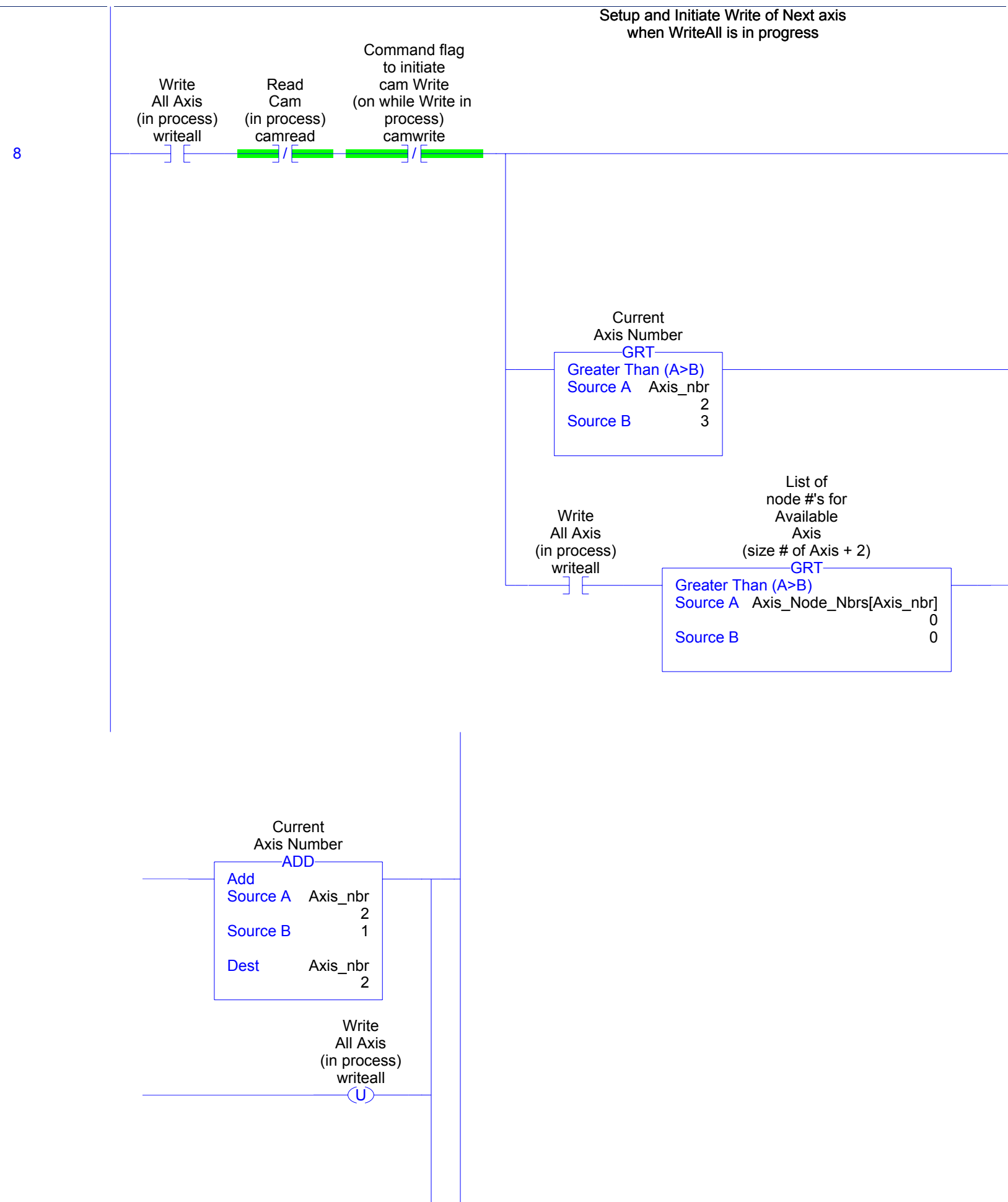




6







Setup and initiate
writing a cam
table to a specific
drive

JSR
Jump To Subroutine
Routine Name _21_WriteCam

loop to generate a new cam
for test

makecam

Specify which set of
cams to work

MOV

Move
Source 1
Dest recipe_nbr
5

Current
Axis Number

MOV

Move
Source 1
Dest Axis_nbr
2

FOR

For
Routine Name _22_generatecam
Index slot
1
Initial Value 0
Terminal Value 1023
Step Size 1

9

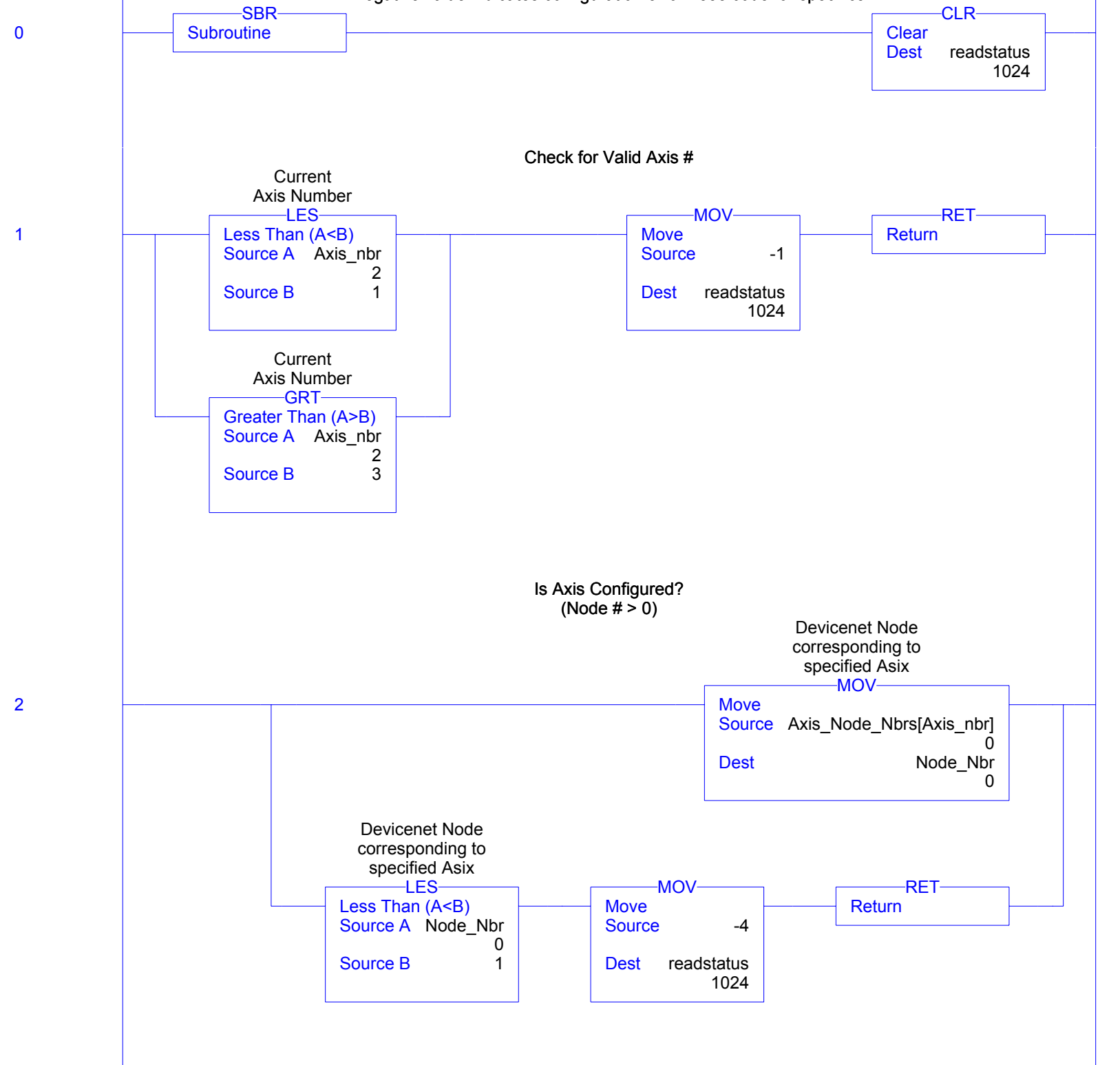
(End)

Name	Value	Data Type	Scope
Axis_nbr	2	SINT	exmsg_dvnet
Current Axis Number <i>Axis_nbr</i> - <i>MainProgram/_20_ReadCam</i> - 1(GRT), 1(LES), 2(MOV), 5(CPT) <i>Axis_nbr</i> - <i>MainProgram/_21_WriteCam</i> - 1(GRT), 1(LES), 2(MOV), 5(CPT) <i>Axis_nbr</i> - <i>MainProgram/_22_generatecam</i> - 0(CPT) <i>Axis_nbr</i> - <i>MainProgram/MainRoutine</i> - *3(MOV), *4(CLR), *5(ADD), *6(MOV), *7(CLR), *8(ADD), *9(MOV), 5(ADD), 5(GRT), 8(ADD), 8(GRT)			
Axis_Node_Nbrs		INT[5]	exmsg_dvnet
List of node #'s for Available Axis (size # of Axis + 2) <i>Axis_Node_Nbrs</i> - <i>MainProgram/_20_ReadCam</i> - 2(MOV) <i>Axis_Node_Nbrs</i> - <i>MainProgram/_21_WriteCam</i> - 2(MOV) <i>Axis_Node_Nbrs</i> - <i>MainProgram/MainRoutine</i> - *1(FLL), 5(GRT), 8(GRT)			
cam_nbr	1	DINT	exmsg_dvnet
cam number in EcoDrive (1 or 2) <i>cam_nbr</i> - <i>MainProgram/_20_ReadCam</i> - 3(GRT), 3(LES), 6(CPT) <i>cam_nbr</i> - <i>MainProgram/_21_WriteCam</i> - 3(GRT), 3(LES), 6(CPT) <i>cam_nbr</i> - <i>MainProgram/MainRoutine</i> - *3(MOV), *4(MOV), *6(MOV), *7(MOV)			
camread	0	BOOL	exmsg_dvnet
Read Cam (in process) <i>camread</i> - <i>MainProgram/_20_ReadCam</i> - *8(OTL) <i>camread</i> - <i>MainProgram/MainRoutine</i> - 3(XIO), 5(XIO), 6(XIO), 8(XIO) <i>camread</i> - <i>Scheduler/_01_CamRead</i> - *3(OTU), *5(OTU), 0(XIO), 4(XIC), 6(XIC) <i>camread</i> - <i>Scheduler/MainRoutine</i> - 0(XIC)			
camwrite	0	BOOL	exmsg_dvnet
Command flag to initiate cam Write (on while Write in process) <i>camwrite</i> - <i>MainProgram/_21_WriteCam</i> - *8(OTL) <i>camwrite</i> - <i>MainProgram/MainRoutine</i> - 3(XIO), 5(XIO), 6(XIO), 8(XIO) <i>camwrite</i> - <i>Scheduler/_02_CamWrite</i> - *1(OTU), *3(OTU), 0(XIO), 2(XIC), 4(XIC) <i>camwrite</i> - <i>Scheduler/MainRoutine</i> - 1(XIC)			
Local:1:O		AB:1769_SDN_364Bytes:O:0	exmsg_dvnet
Local:1:O.CommandRegister		AB:1769_SDN_CommandRegister:O:0	
Local:1:O.CommandRegister.Run	1	BOOL	
<i>Local:1:O.CommandRegister.Run</i> - <i>MainProgram/MainRoutine</i> - *2(OTE)			
makecam	0	BOOL	exmsg_dvnet
<i>makecam</i> - <i>MainProgram/_22_generatecam</i> - *1(OTU), 0(XIC) <i>makecam</i> - <i>MainProgram/MainRoutine</i> - 9(XIC)			
oneshots		BOOL[32]	exmsg_dvnet
read1cam	0	BOOL	exmsg_dvnet
turn on to read cam from 1 axis <i>read1cam</i> - <i>MainProgram/MainRoutine</i> - 3(XIC)			
readAll	0	BOOL	exmsg_dvnet
Read All Axis (in process) <i>readAll</i> - <i>MainProgram/MainRoutine</i> - *4(OTL), *5(OTU), 4(XIO), 5(XIC)			
readallcams	0	BOOL	exmsg_dvnet
Turn on to read all axis <i>readallcams</i> - <i>MainProgram/MainRoutine</i> - 4(XIC)			
recipe_nbr	5	DINT	exmsg_dvnet
Specify which set of cams to work <i>recipe_nbr</i> - <i>MainProgram/_20_ReadCam</i> - 4(GRT), 4(LES), 5(CPT) <i>recipe_nbr</i> - <i>MainProgram/_21_WriteCam</i> - 4(GRT), 4(LES), 5(CPT) <i>recipe_nbr</i> - <i>MainProgram/_22_generatecam</i> - 0(CPT)			

recipe_nbr (Continued) <i>recipe_nbr - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV), *9(MOV)</i>			
Recipes_Avail	10	DINT	exmsg_dvnet
total number of recipes available <i>Recipes_Avail - MainProgram/_20_ReadCam - 4(GRT)</i> <i>Recipes_Avail - MainProgram/_21_WriteCam - 4(GRT)</i> <i>Recipes_Avail - MainProgram/MainRoutine - *0(MOV)</i>			
SDM_slot	1	SINT	exmsg_dvnet
Slot # of SDM module on I/O bus <i>SDM_slot - MainProgram/_20_ReadCam - 7(MOV)</i> <i>SDM_slot - MainProgram/_21_WriteCam - 7(MOV)</i> <i>SDM_slot - MainProgram/MainRoutine - *0(MOV)</i>			
slot	1	DINT	exmsg_dvnet
pointer to the appropriate slot in the cam item 0-1023 <i>slot - MainProgram/_20_ReadCam - *8(CLR)</i> <i>slot - MainProgram/_21_WriteCam - *8(CLR)</i> <i>slot - MainProgram/_22_generatecam - 0(CPT), 1(GEQ)</i> <i>slot - MainProgram/MainRoutine - *9(FOR)</i> <i>slot - Scheduler/_01_CamRead - *2(COP), *3(ADD), 3(ADD), 3(GEQ), 3(MOV), 4(CPT), 5(CPT)</i> <i>slot - Scheduler/_02_CamWrite - *1(ADD), 1(ADD), 1(GEQ), 1(MOV), 2(ADD), 2(COP), 3(CPT)</i>			
writelcam	0	BOOL	exmsg_dvnet
Turn on to write cam to 1 axis <i>writelcam - MainProgram/MainRoutine - 6(XIC)</i>			
writeall	0	BOOL	exmsg_dvnet
Write All Axis (in process) <i>writeall - MainProgram/MainRoutine - *7(OTL), *8(OTU), 7(XIO), 8(XIC)</i>			
writeallcams	0	BOOL	exmsg_dvnet
Turn on to write cams to all axis <i>writeallcams - MainProgram/MainRoutine - 7(XIC)</i>			

Setup and initiate Cam read from
a specific drive

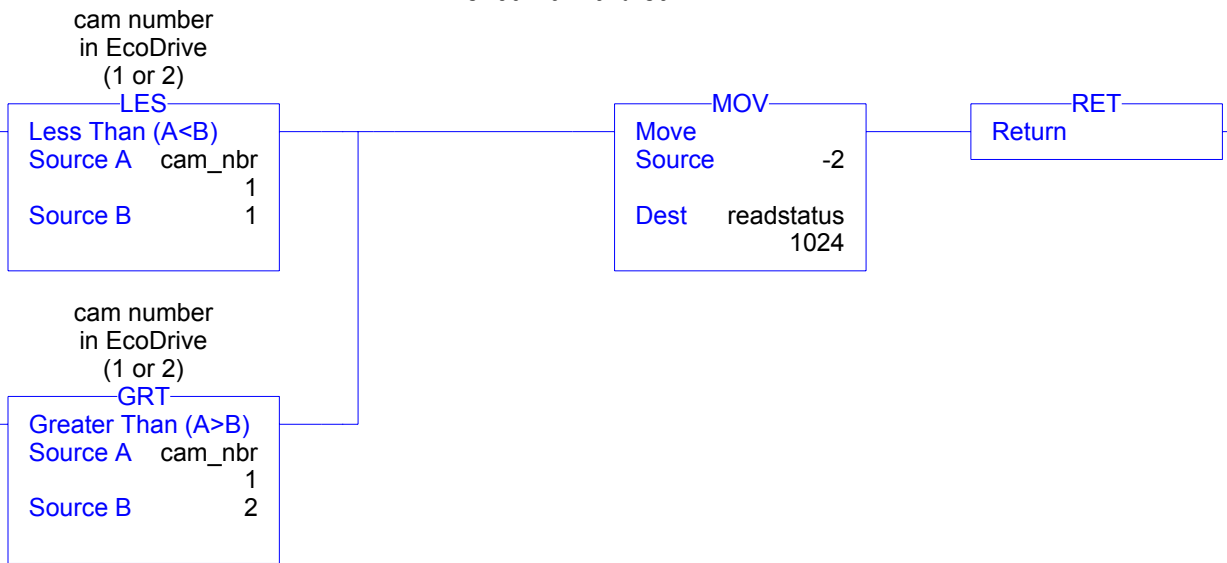
If readstatus positive it = number of values read
Negative value indicates configuration error - see code for specifics



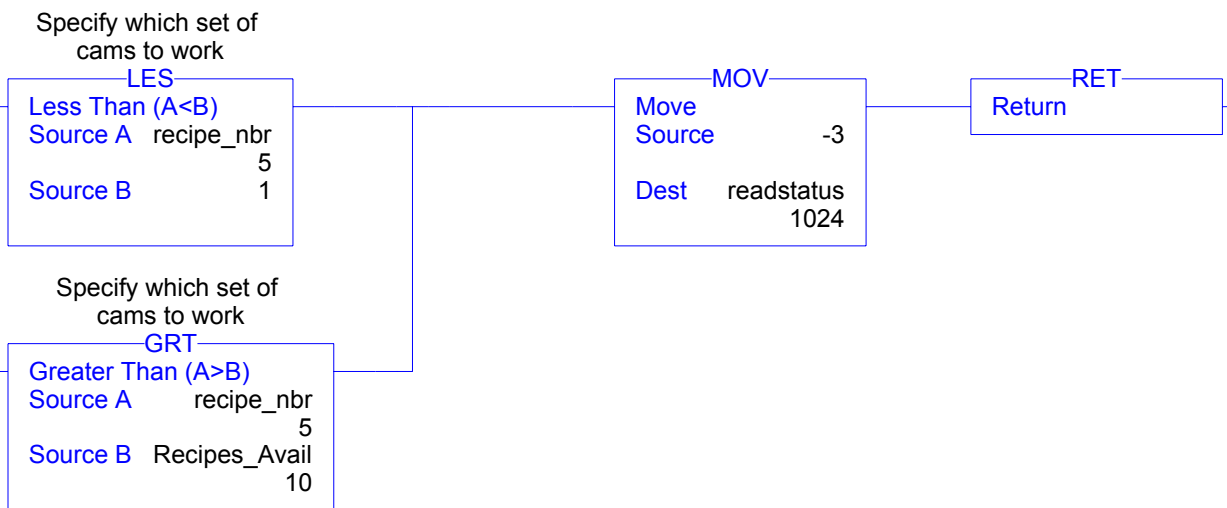
Setup and initiate Cam read from
a specific drive

Check for Valid Cam #

3



4



Setup and initiate Cam read from
a specific drive

Compute pointer that dont change during
read process

pointer to
axis index of
cam array
[receipt],[axis],[sl
ot]

CPT

Compute
Dest axis_ptr
0
Expression Axis_nbr-1

pointer to
recipe index of
cam array
[recipe],[axis],[slo
t]

CPT

Compute
Dest recipe_ptr
4
Expression recipe_nbr-1

===== set Class & Instance based on Cam Number 1 or 2 =====

Cam 1 = P-0-0072 & Cam 2 = P-0-0092
class = 118 + Int((72 - 1)/255) = 118 (16#76)
instance = 72 - (class - 118) * 255 = 72 or 92 (for cam 2)

MOV

Move
Source 118
Dest Class_Rd
<readmsg1.Class>
118

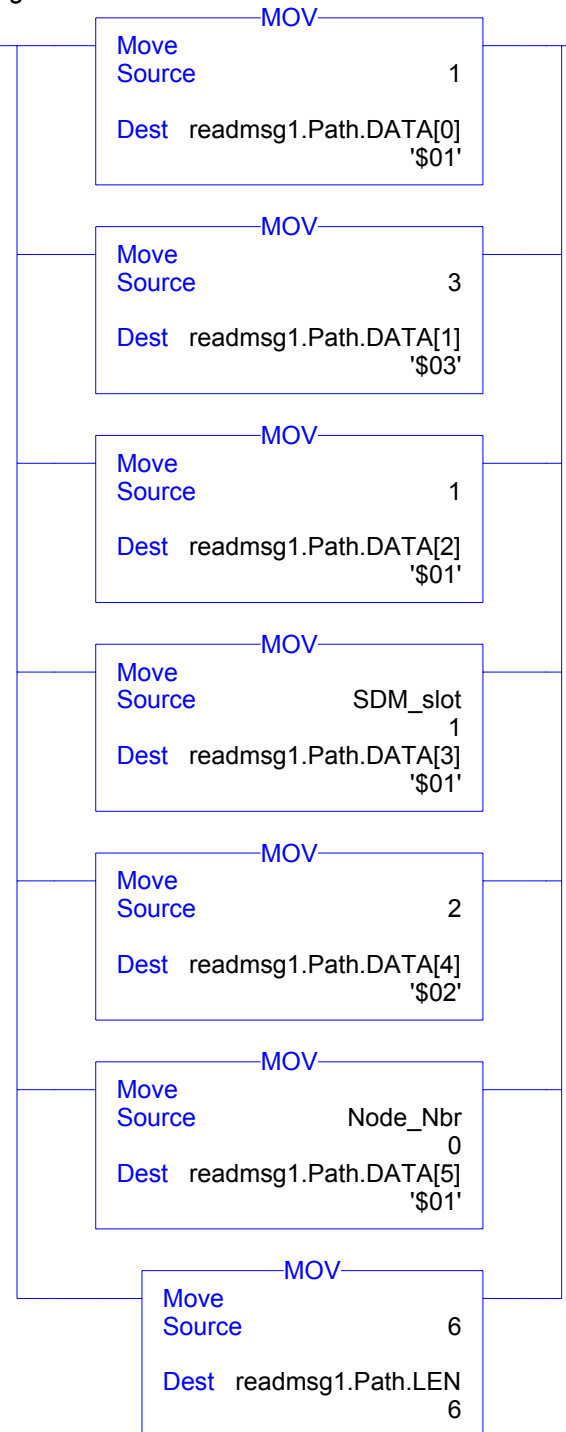
CPT

Compute
Dest Instance_Rd
<readmsg1.Instance>
72
Expression 72 + ((cam_nbr - 1)) * 20

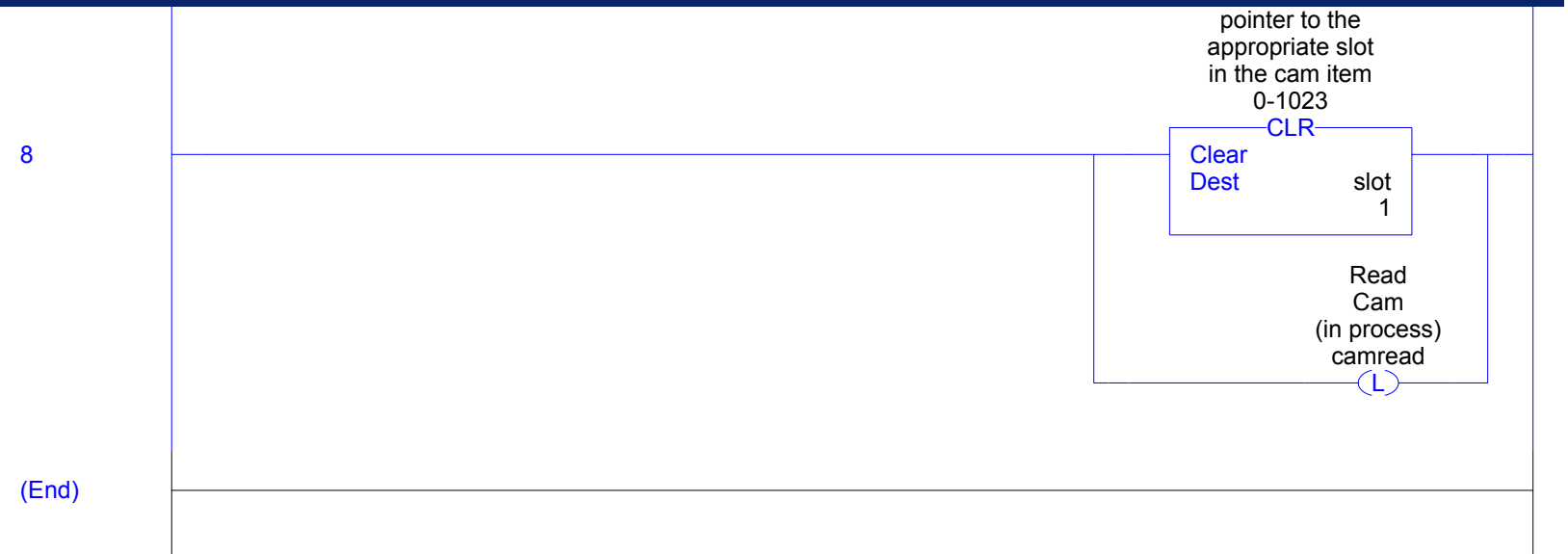
Setup and initiate Cam read from
a specific drive

=== Generate Read Path ===
path is 1,3,1,1,2,node
1 is virtual backplane of controller
3 is slot number of 1769 bus adapter
1 is the 1769 backplane
1 is the slot number of the 1769-SDM module
2 is the DeviceNet network port on the module
node is the node # of the target drive

7



Setup and initiate Cam read from
a specific drive



Name	Value	Data Type	Scope
Axis_nbr	2	SINT	exmsg_dvnet
Current Axis Number			
<i>Axis_nbr - MainProgram/_20_ReadCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)</i>			
<i>Axis_nbr - MainProgram/_21_WriteCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)</i>			
<i>Axis_nbr - MainProgram/_22_generatecam - 0(CPT)</i>			
<i>Axis_nbr - MainProgram/MainRoutine - *3(MOV), *4(CLR), *5(ADD), *6(MOV), *7(CLR), *8(ADD), *9(MOV), 5(ADD), 5(GRT), 8(ADD), 8(GRT)</i>			
Axis_Node_Nbrs		INT[5]	exmsg_dvnet
List of node #'s for Available Axis (size # of Axis + 2)			
<i>Axis_Node_Nbrs - MainProgram/_20_ReadCam - 2(MOV)</i>			
<i>Axis_Node_Nbrs - MainProgram/_21_WriteCam - 2(MOV)</i>			
<i>Axis_Node_Nbrs - MainProgram/MainRoutine - *1(FLL), 5(GRT), 8(GRT)</i>			
axis_ptr	0	DINT	exmsg_dvnet
pointer to axis index of cam array [receipt],[axis],[slot]			
<i>axis_ptr - MainProgram/_20_ReadCam - *5(CPT)</i>			
<i>axis_ptr - MainProgram/_21_WriteCam - *5(CPT)</i>			
<i>axis_ptr - MainProgram/_22_generatecam - *0(CPT), 0(CPT)</i>			
<i>axis_ptr - Scheduler/_01_CamRead - *2(COP)</i>			
<i>axis_ptr - Scheduler/_02_CamWrite - 2(COP)</i>			
cam_nbr	1	DINT	exmsg_dvnet
cam number in EcoDrive (1 or 2)			
<i>cam_nbr - MainProgram/_20_ReadCam - 3(GRT), 3(LES), 6(CPT)</i>			
<i>cam_nbr - MainProgram/_21_WriteCam - 3(GRT), 3(LES), 6(CPT)</i>			
<i>cam_nbr - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV)</i>			
camread	0	BOOL	exmsg_dvnet
Read Cam (in process)			
<i>camread - MainProgram/_20_ReadCam - *8(OTL)</i>			
<i>camread - MainProgram/MainRoutine - 3(XIO), 5(XIO), 6(XIO), 8(XIO)</i>			
<i>camread - Scheduler/_01_CamRead - *3(OTU), *5(OTU), 0(XIO), 4(XIC), 6(XIC)</i>			
<i>camread - Scheduler/MainRoutine - 0(XIC)</i>			
Class_Rd	118	INT	exmsg_dvnet
Alias For: readmsg1.Class			
Base Tag: readmsg1.Class			
<i>Class_Rd - MainProgram/_20_ReadCam - *6(MOV)</i>			
<i>Class_Rd - MainProgram/_21_WriteCam - *6(MOV)</i>			
<i>readmsg1 - Scheduler/_01_CamRead - *6(MSG)</i>			
Instance_Rd	72	DINT	exmsg_dvnet
Alias For: readmsg1.Instance			
Base Tag: readmsg1.Instance			
<i>Instance_Rd - MainProgram/_20_ReadCam - *6(CPT)</i>			
<i>Instance_Rd - MainProgram/_21_WriteCam - *6(CPT)</i>			
<i>readmsg1 - Scheduler/_01_CamRead - *6(MSG)</i>			
Node_Nbr	0	DINT	exmsg_dvnet
Devicenet Node corresponding to specified Asix			
<i>Node_Nbr - MainProgram/_20_ReadCam - *2(MOV), 2(LES), 7(MOV)</i>			
<i>Node_Nbr - MainProgram/_21_WriteCam - *2(MOV), 2(LES), 7(MOV)</i>			
readmsg1		MESSAGE	exmsg_dvnet
<i>readmsg1 - Scheduler/_01_CamRead - *6(MSG)</i>			
readmsg1.Flags	16#0200	INT	
readmsg1.Flags.4	0	BOOL	
readmsg1.Flags.5	0	BOOL	
readmsg1.Flags.7	0	BOOL	
readmsg1.EW	0	BOOL	
readmsg1.ER	0	BOOL	
<i>readmsg1.ER - Scheduler/_01_CamRead - 1(XIO), 5(XIC)</i>			

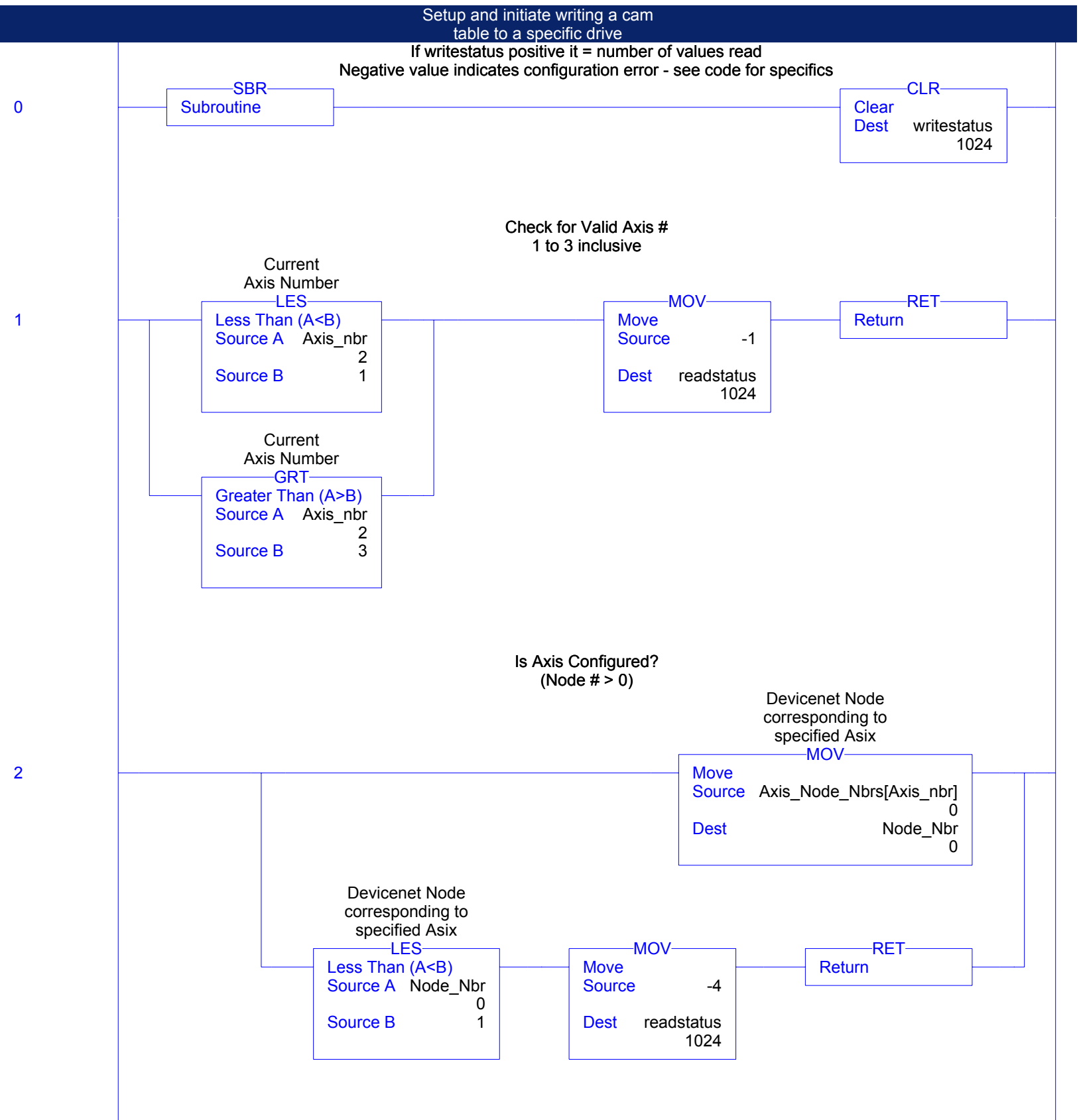
readmsg1 (Continued)			
readmsg1.DN	0	BOOL	
<i>readmsg1.DN - Scheduler/_01_CamRead - 1(XIC)</i>			
readmsg1.ST	0	BOOL	
readmsg1.EN	0	BOOL	
<i>readmsg1.EN - Scheduler/_01_CamRead - 1(XIC), 4(XIO), 5(XIC)</i>			
readmsg1.TO	0	BOOL	
readmsg1.EN_CC	0	BOOL	
readmsg1.ERR	16#0000	INT	
readmsg1.EXERR	16#0000_0000	DINT	
readmsg1.ERR_SRC	0	SINT	
readmsg1.DN_LEN	32	INT	
readmsg1.REQ_LEN	0	INT	
readmsg1.DestinationLink	0	INT	
readmsg1.DestinationNode	8#000_000	INT	
readmsg1.SourceLink	0	INT	
readmsg1.Class	16#0076	INT	
<i>Class_Rd - MainProgram/_20_ReadCam - *6(MOV)</i>			
<i>Class_Rd - MainProgram/_21_WriteCam - *6(MOV)</i>			
readmsg1.Attribute	16#0089	INT	
<i>readmsg1.Attribute - Scheduler/_01_CamRead - *4(CPT)</i>			
readmsg1.Instance	72	DINT	
<i>Instance_Rd - MainProgram/_20_ReadCam - *6(CPT)</i>			
<i>Instance_Rd - MainProgram/_21_WriteCam - *6(CPT)</i>			
readmsg1.LocalIndex	0	DINT	
readmsg1.Channel	'\$00'	SINT	
readmsg1.Rack	8#000	SINT	
readmsg1.Group	0	SINT	
readmsg1.Slot	0	SINT	
readmsg1.Path	\$01\$03\$01\$01\$02\$01	STRING	
readmsg1.Path.LEN	6	DINT	
<i>readmsg1.Path.LEN - MainProgram/_20_ReadCam - *7(MOV)</i>			
readmsg1.Path.DATA		SINT	
readmsg1.RemoteIndex	0	DINT	
readmsg1.RemoteElement		STRING	
readmsg1.RemoteElement.LEN	0	DINT	
readmsg1.RemoteElement.DATA		SINT	
readmsg1.UnconnectedTimeout	30000000	DINT	
readmsg1.ConnectionRate	7500000	DINT	
readmsg1.TimeoutMultiplier	0	SINT	
readstatus	1024	DINT	exmsg_dvnet
<i>readstatus - MainProgram/_20_ReadCam - *0(CLR), *1(MOV), *2(MOV), *3(MOV), *4(MOV)</i>			
<i>readstatus - MainProgram/_21_WriteCam - *1(MOV), *2(MOV)</i>			
<i>readstatus - Scheduler/_01_CamRead - *3(MOV), *5(CPT)</i>			
<i>readstatus - Scheduler/_02_CamWrite - *3(CPT)</i>			
recipe_nbr	5	DINT	exmsg_dvnet
Specify which set of cams to work			
<i>recipe_nbr - MainProgram/_20_ReadCam - 4(GRT), 4(LES), 5(CPT)</i>			
<i>recipe_nbr - MainProgram/_21_WriteCam - 4(GRT), 4(LES), 5(CPT)</i>			
<i>recipe_nbr - MainProgram/_22_generatecam - 0(CPT)</i>			
<i>recipe_nbr - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV), *9(MOV)</i>			
recipe_ptr	4	DINT	exmsg_dvnet
pointer to recipe index of cam array [recipe],[axis],[slot]			
<i>recipe_ptr - MainProgram/_20_ReadCam - *5(CPT)</i>			
<i>recipe_ptr - MainProgram/_21_WriteCam - *5(CPT)</i>			
<i>recipe_ptr - MainProgram/_22_generatecam - *0(CPT), 0(CPT)</i>			
<i>recipe_ptr - Scheduler/_01_CamRead - *2(COP)</i>			
<i>recipe_ptr - Scheduler/_02_CamWrite - 2(COP)</i>			
Recipes_Avail	10	DINT	exmsg_dvnet
total number of recipes available			

Recipes_Avail (Continued)

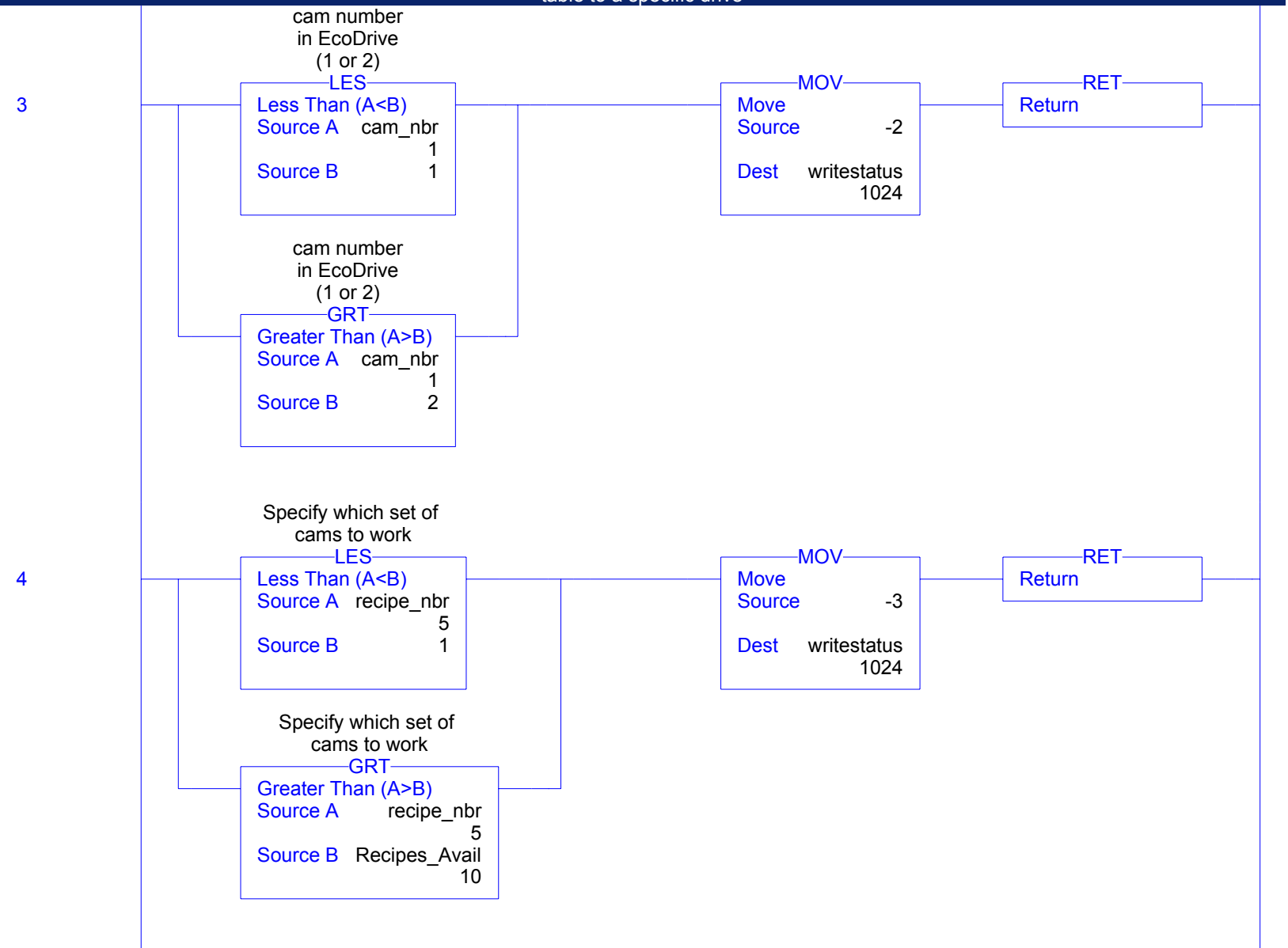
Recipes_Avail - MainProgram/_20_ReadCam - 4(GRT)
Recipes_Avail - MainProgram/_21_WriteCam - 4(GRT)
*Recipes_Avail - MainProgram/MainRoutine - *0(MOV)*

SDM_slot	1	SINT	exmsg_dvnet
Slot # of SDM module on I/O bus			
<i>SDM_slot - MainProgram/_20_ReadCam - 7(MOV)</i>			
<i>SDM_slot - MainProgram/_21_WriteCam - 7(MOV)</i>			
<i>SDM_slot - MainProgram/MainRoutine - *0(MOV)</i>			

slot	1	DINT	exmsg_dvnet
pointer to the appropriate slot in the cam item 0-1023			
<i>slot - MainProgram/_20_ReadCam - *8(CLR)</i>			
<i>slot - MainProgram/_21_WriteCam - *8(CLR)</i>			
<i>slot - MainProgram/_22_generatecam - 0(CPT), 1(GEQ)</i>			
<i>slot - MainProgram/MainRoutine - *9(FOR)</i>			
<i>slot - Scheduler/_01_CamRead - *2(COP), *3(ADD), 3(ADD), 3(GEQ), 3(MOV), 4(CPT), 5(CPT)</i>			
<i>slot - Scheduler/_02_CamWrite - *1(ADD), 1(ADD), 1(GEQ), 1(MOV), 2(ADD), 2(COP), 3(CPT)</i>			



Setup and initiate writing a cam
table to a specific drive



Setup and initiate writing a cam
table to a specific drive
Compute pointer that dont change during
read process

5

pointer to
axis index of
cam array
[receipt],[axis],[sl
ot]

CPT

Compute
Dest axis_ptr
0
Expression Axis_nbr-1

pointer to
recipe index of
cam array
[recipe],[axis],[slo
t]

CPT

Compute
Dest recipe_ptr
4
Expression recipe_nbr-1

===== set Class & Instance based on Cam Number 1 or 2 =====
Cam 1 = P-0-0072 & Cam 2 = P-0-0092
class = 118 + Int((72 - 1)/255) = 118 (16#76)
instance = 72 - (class - 118) * 255 = 72 or 92 (for cam 2)

6

MOV

Move
Source 118
Dest Class_Rd
<readmsg1.Class>
118

CPT

Compute
Dest Instance_Rd
<readmsg1.Instance>
72
Expression 72 + ((cam_nbr -1)) * 20

Setup and initiate writing a cam
table to a specific drive

=== Generate Read Path ===

path is 1,3,1,1,2,node

1 is virtual backplane of controller

3 is slot number of 1769 bus adapter

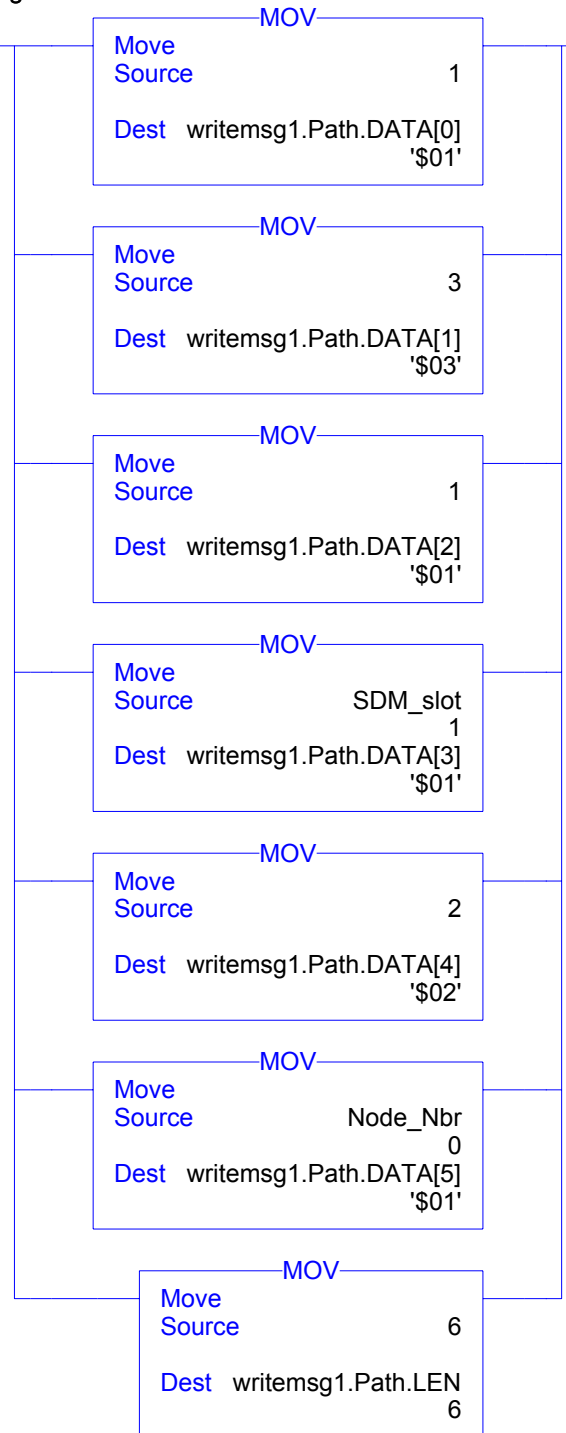
1 is the 1769 backplane

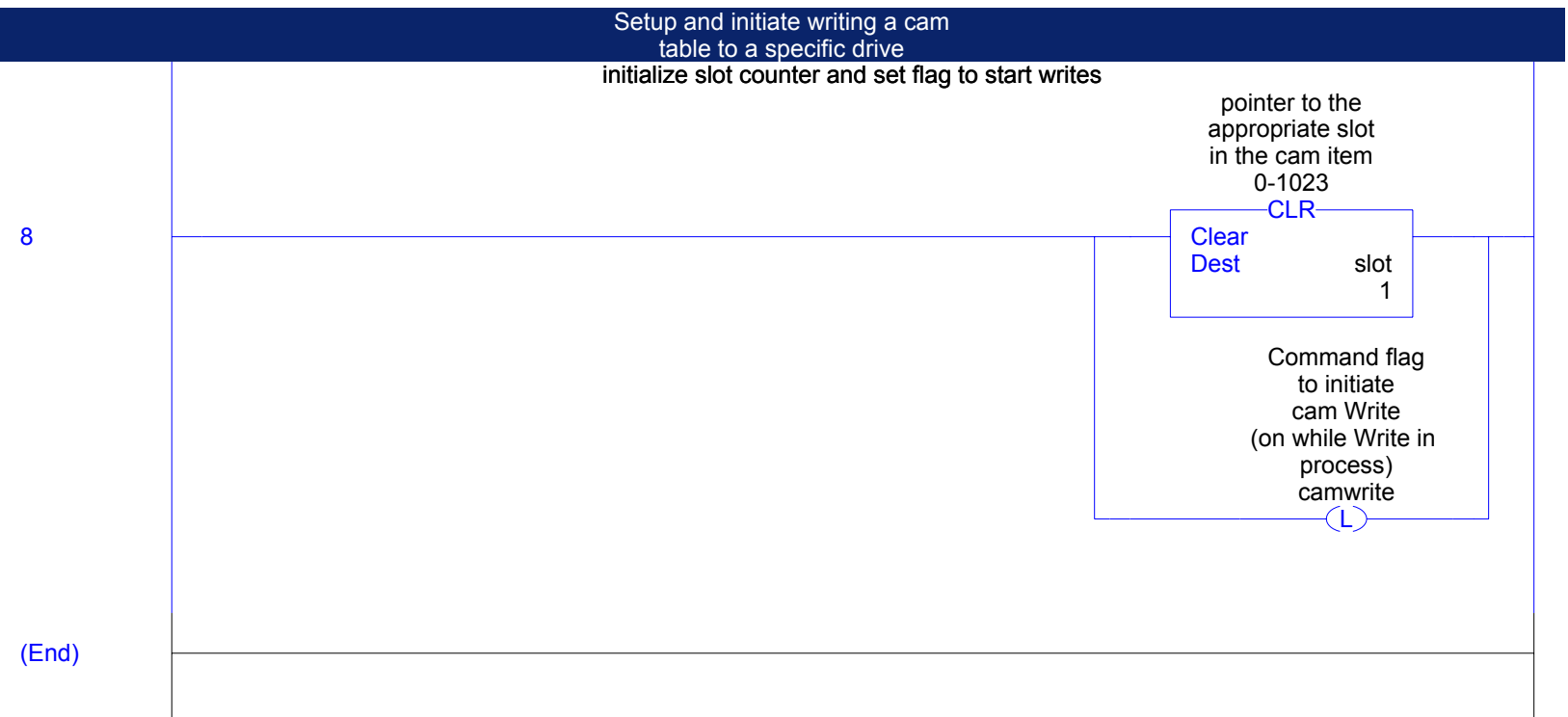
1 is the slot number of the 1769-SDM module

2 is the DeviceNet network port on the module

node is the node # of the target drive

7

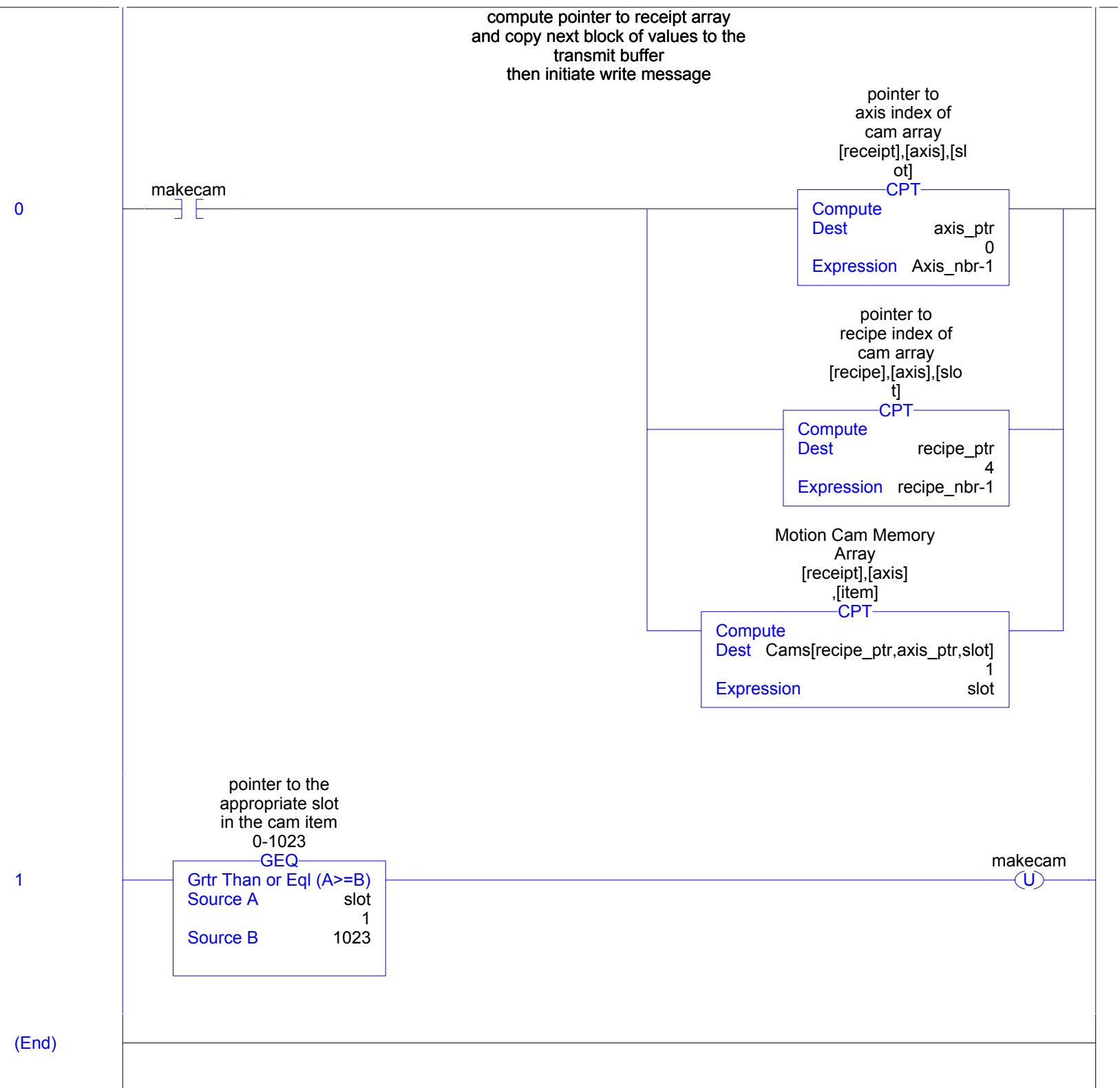




Name	Value	Data Type	Scope
Axis_nbr	2	SINT	exmsg_dvnet
Current Axis Number			
<i>Axis_nbr</i> - MainProgram/_20_ReadCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)			
<i>Axis_nbr</i> - MainProgram/_21_WriteCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)			
<i>Axis_nbr</i> - MainProgram/_22_generatecam - 0(CPT)			
<i>Axis_nbr</i> - MainProgram/MainRoutine - *3(MOV), *4(CLR), *5(ADD), *6(MOV), *7(CLR), *8(ADD), *9(MOV), 5(ADD), 5(GRT), 8(ADD), 8(GRT)			
Axis_Node_Nbrs		INT[5]	exmsg_dvnet
List of node #'s for Available Axis (size # of Axis + 2)			
<i>Axis_Node_Nbrs</i> - MainProgram/_20_ReadCam - 2(MOV)			
<i>Axis_Node_Nbrs</i> - MainProgram/_21_WriteCam - 2(MOV)			
<i>Axis_Node_Nbrs</i> - MainProgram/MainRoutine - *1(FLL), 5(GRT), 8(GRT)			
axis_ptr	0	DINT	exmsg_dvnet
pointer to axis index of cam array [receipt],[axis],[slot]			
<i>axis_ptr</i> - MainProgram/_20_ReadCam - *5(CPT)			
<i>axis_ptr</i> - MainProgram/_21_WriteCam - *5(CPT)			
<i>axis_ptr</i> - MainProgram/_22_generatecam - *0(CPT), 0(CPT)			
<i>axis_ptr</i> - Scheduler/_01_CamRead - *2(COP)			
<i>axis_ptr</i> - Scheduler/_02_CamWrite - 2(COP)			
cam_nbr	1	DINT	exmsg_dvnet
cam number in EcoDrive (1 or 2)			
<i>cam_nbr</i> - MainProgram/_20_ReadCam - 3(GRT), 3(LES), 6(CPT)			
<i>cam_nbr</i> - MainProgram/_21_WriteCam - 3(GRT), 3(LES), 6(CPT)			
<i>cam_nbr</i> - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV)			
camwrite	0	BOOL	exmsg_dvnet
Command flag to initiate cam Write (on while Write in process)			
<i>camwrite</i> - MainProgram/_21_WriteCam - *8(OTL)			
<i>camwrite</i> - MainProgram/MainRoutine - 3(XIO), 5(XIO), 6(XIO), 8(XIO)			
<i>camwrite</i> - Scheduler/_02_CamWrite - *1(OTU), *3(OTU), 0(XIO), 2(XIC), 4(XIC)			
<i>camwrite</i> - Scheduler/MainRoutine - 1(XIC)			
Class_Rd	118	INT	exmsg_dvnet
Alias For: readmsg1.Class			
Base Tag: readmsg1.Class			
<i>Class_Rd</i> - MainProgram/_20_ReadCam - *6(MOV)			
<i>Class_Rd</i> - MainProgram/_21_WriteCam - *6(MOV)			
<i>readmsg1</i> - Scheduler/_01_CamRead - *6(MSG)			
Instance_Rd	72	DINT	exmsg_dvnet
Alias For: readmsg1.Instance			
Base Tag: readmsg1.Instance			
<i>Instance_Rd</i> - MainProgram/_20_ReadCam - *6(CPT)			
<i>Instance_Rd</i> - MainProgram/_21_WriteCam - *6(CPT)			
<i>readmsg1</i> - Scheduler/_01_CamRead - *6(MSG)			
Node_Nbr	0	DINT	exmsg_dvnet
Devicenet Node corresponding to specified Asix			
<i>Node_Nbr</i> - MainProgram/_20_ReadCam - *2(MOV), 2(LES), 7(MOV)			
<i>Node_Nbr</i> - MainProgram/_21_WriteCam - *2(MOV), 2(LES), 7(MOV)			
readstatus	1024	DINT	exmsg_dvnet
<i>readstatus</i> - MainProgram/_20_ReadCam - *0(CLR), *1(MOV), *2(MOV), *3(MOV), *4(MOV)			
<i>readstatus</i> - MainProgram/_21_WriteCam - *1(MOV), *2(MOV)			
<i>readstatus</i> - Scheduler/_01_CamRead - *3(MOV), *5(CPT)			
<i>readstatus</i> - Scheduler/_02_CamWrite - *3(CPT)			
recipe_nbr	5	DINT	exmsg_dvnet
Specify which set of cams to work			
<i>recipe_nbr</i> - MainProgram/_20_ReadCam - 4(GRT), 4(LES), 5(CPT)			

recipe_nbr (Continued)			
<i>recipe_nbr</i> - <i>MainProgram/ 21_WriteCam</i> - 4(<i>GRT</i>), 4(<i>LES</i>), 5(<i>CPT</i>)			
<i>recipe_nbr</i> - <i>MainProgram/ 22_generatecam</i> - 0(<i>CPT</i>)			
<i>recipe_nbr</i> - <i>MainProgram/MainRoutine</i> - *3(<i>MOV</i>), *4(<i>MOV</i>), *6(<i>MOV</i>), *7(<i>MOV</i>), *9(<i>MOV</i>)			
recipe_ptr	4	DINT	exmsg_dvnet
pointer to recipe index of cam array [recipe],[axis],[slot]			
<i>recipe_ptr</i> - <i>MainProgram/ 20_ReadCam</i> - *5(<i>CPT</i>)			
<i>recipe_ptr</i> - <i>MainProgram/ 21_WriteCam</i> - *5(<i>CPT</i>)			
<i>recipe_ptr</i> - <i>MainProgram/ 22_generatecam</i> - *0(<i>CPT</i>), 0(<i>CPT</i>)			
<i>recipe_ptr</i> - <i>Scheduler/ 01_CamRead</i> - *2(<i>COP</i>)			
<i>recipe_ptr</i> - <i>Scheduler/ 02_CamWrite</i> - 2(<i>COP</i>)			
Recipes_Avail	10	DINT	exmsg_dvnet
total number of recipes available			
<i>Recipes_Avail</i> - <i>MainProgram/ 20_ReadCam</i> - 4(<i>GRT</i>)			
<i>Recipes_Avail</i> - <i>MainProgram/ 21_WriteCam</i> - 4(<i>GRT</i>)			
<i>Recipes_Avail</i> - <i>MainProgram/MainRoutine</i> - *0(<i>MOV</i>)			
SDM_slot	1	SINT	exmsg_dvnet
Slot # of SDM module on I/O bus			
<i>SDM_slot</i> - <i>MainProgram/ 20_ReadCam</i> - 7(<i>MOV</i>)			
<i>SDM_slot</i> - <i>MainProgram/ 21_WriteCam</i> - 7(<i>MOV</i>)			
<i>SDM_slot</i> - <i>MainProgram/MainRoutine</i> - *0(<i>MOV</i>)			
slot	1	DINT	exmsg_dvnet
pointer to the appropriate slot in the cam item 0-1023			
<i>slot</i> - <i>MainProgram/ 20_ReadCam</i> - *8(<i>CLR</i>)			
<i>slot</i> - <i>MainProgram/ 21_WriteCam</i> - *8(<i>CLR</i>)			
<i>slot</i> - <i>MainProgram/ 22_generatecam</i> - 0(<i>CPT</i>), 1(<i>GEQ</i>)			
<i>slot</i> - <i>MainProgram/MainRoutine</i> - *9(<i>FOR</i>)			
<i>slot</i> - <i>Scheduler/ 01_CamRead</i> - *2(<i>COP</i>), *3(<i>ADD</i>), 3(<i>ADD</i>), 3(<i>GEQ</i>), 3(<i>MOV</i>), 4(<i>CPT</i>), 5(<i>CPT</i>)			
<i>slot</i> - <i>Scheduler/ 02_CamWrite</i> - *1(<i>ADD</i>), 1(<i>ADD</i>), 1(<i>GEQ</i>), 1(<i>MOV</i>), 2(<i>ADD</i>), 2(<i>COP</i>), 3(<i>CPT</i>)			
writemsg1		MESSAGE	exmsg_dvnet
<i>writemsg1</i> - <i>Scheduler/ 02_CamWrite</i> - *4(<i>MSG</i>)			
writemsg1.Flags	16#0200	INT	
writemsg1.Flags.4	0	BOOL	
writemsg1.Flags.5	0	BOOL	
writemsg1.Flags.7	0	BOOL	
writemsg1.EW	0	BOOL	
writemsg1.ER	0	BOOL	
<i>writemsg1.ER</i> - <i>Scheduler/ 02_CamWrite</i> - 1(<i>XIO</i>), 3(<i>XIC</i>)			
writemsg1.DN	0	BOOL	
<i>writemsg1.DN</i> - <i>Scheduler/ 02_CamWrite</i> - 1(<i>XIC</i>)			
writemsg1.ST	0	BOOL	
writemsg1.EN	0	BOOL	
<i>writemsg1.EN</i> - <i>Scheduler/ 02_CamWrite</i> - 1(<i>XIC</i>), 2(<i>XIO</i>), 3(<i>XIC</i>)			
writemsg1.TO	0	BOOL	
writemsg1.EN_CC	0	BOOL	
writemsg1.ERR	16#0000	INT	
writemsg1.EXERR	16#0000_0000	DINT	
writemsg1.ERR_SRC	0	SINT	
writemsg1.DN_LEN	0	INT	
writemsg1.REQ_LEN	34	INT	
writemsg1.DestinationLink	0	INT	
writemsg1.DestinationNode	8#000_000	INT	
writemsg1.SourceLink	0	INT	
writemsg1.Class	16#0076	INT	
writemsg1.Attribute	16#000a	INT	
writemsg1.Instance	72	DINT	
writemsg1.LocalIndex	0	DINT	
writemsg1.Channel	'\$00'	SINT	
writemsg1.Rack	8#000	SINT	

writemsg1 (Continued)			
writemsg1.Group	0	SINT	
writemsg1.Slot	0	SINT	
writemsg1.Path	\$01\$03\$01\$01\$02\$01	STRING	
writemsg1.Path.LEN	6	DINT	
writemsg1.Path.LEN - MainProgram/_21_WriteCam - *7(MOV)			
writemsg1.Path.DATA		SINT	
writemsg1.RemoteIndex	0	DINT	
writemsg1.RemoteElement		STRING	
writemsg1.RemoteElement.LEN	0	DINT	
writemsg1.RemoteElement.DATA		SINT	
writemsg1.UnconnectedTimeout	30000000	DINT	
writemsg1.ConnectionRate	7500000	DINT	
writemsg1.TimeoutMultiplier	0	SINT	
writestatus	1024	DINT	exmsg_dvnet
writestatus - MainProgram/_21_WriteCam - *0(CLR), *3(MOV), *4(MOV)			
writestatus - Scheduler/_02_CamWrite - *1(MOV)			




Name	Value	Data Type	Scope
Axis_nbr	2	SINT	exmsg_dvnet
Current Axis Number			
<i>Axis_nbr - MainProgram/_20_ReadCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)</i>			
<i>Axis_nbr - MainProgram/_21_WriteCam - 1(GRT), 1(LES), 2(MOV), 5(CPT)</i>			
<i>Axis_nbr - MainProgram/_22_generatecam - 0(CPT)</i>			
<i>Axis_nbr - MainProgram/MainRoutine - *3(MOV), *4(CLR), *5(ADD), *6(MOV), *7(CLR), *8(ADD), *9(MOV), 5(ADD), 5(GRT), 8(ADD), 8(GRT)</i>			
axis_ptr	0	DINT	exmsg_dvnet
pointer to axis index of cam array [receipt],[axis],[slot]			
<i>axis_ptr - MainProgram/_20_ReadCam - *5(CPT)</i>			
<i>axis_ptr - MainProgram/_21_WriteCam - *5(CPT)</i>			
<i>axis_ptr - MainProgram/_22_generatecam - *0(CPT), 0(CPT)</i>			
<i>axis_ptr - Scheduler/_01_CamRead - *2(COP)</i>			
<i>axis_ptr - Scheduler/_02_CamWrite - 2(COP)</i>			
Cams		DINT[10,2,1024]	exmsg_dvnet
Motion Cam Memory Array [receipt],[axis],[item]			
<i>Cams - MainProgram/_22_generatecam - *0(CPT)</i>			
<i>Cams - Scheduler/_01_CamRead - *2(COP)</i>			
<i>Cams - Scheduler/_02_CamWrite - 2(COP)</i>			
makecam	0	BOOL	exmsg_dvnet
<i>makecam - MainProgram/_22_generatecam - *1(OTU), 0(XIC)</i>			
<i>makecam - MainProgram/MainRoutine - 9(XIC)</i>			
recipe_nbr	5	DINT	exmsg_dvnet
Specify which set of cams to work			
<i>recipe_nbr - MainProgram/_20_ReadCam - 4(GRT), 4(LES), 5(CPT)</i>			
<i>recipe_nbr - MainProgram/_21_WriteCam - 4(GRT), 4(LES), 5(CPT)</i>			
<i>recipe_nbr - MainProgram/_22_generatecam - 0(CPT)</i>			
<i>recipe_nbr - MainProgram/MainRoutine - *3(MOV), *4(MOV), *6(MOV), *7(MOV), *9(MOV)</i>			
recipe_ptr	4	DINT	exmsg_dvnet
pointer to recipe index of cam array [recipe],[axis],[slot]			
<i>recipe_ptr - MainProgram/_20_ReadCam - *5(CPT)</i>			
<i>recipe_ptr - MainProgram/_21_WriteCam - *5(CPT)</i>			
<i>recipe_ptr - MainProgram/_22_generatecam - *0(CPT), 0(CPT)</i>			
<i>recipe_ptr - Scheduler/_01_CamRead - *2(COP)</i>			
<i>recipe_ptr - Scheduler/_02_CamWrite - 2(COP)</i>			
slot	1	DINT	exmsg_dvnet
pointer to the appropriate slot in the cam item 0-1023			
<i>slot - MainProgram/_20_ReadCam - *8(CLR)</i>			
<i>slot - MainProgram/_21_WriteCam - *8(CLR)</i>			
<i>slot - MainProgram/_22_generatecam - 0(CPT), 1(GEQ)</i>			
<i>slot - MainProgram/MainRoutine - *9(FOR)</i>			
<i>slot - Scheduler/_01_CamRead - *2(COP), *3(ADD), 3(ADD), 3(GEQ), 3(MOV), 4(CPT), 5(CPT)</i>			
<i>slot - Scheduler/_02_CamWrite - *1(ADD), 1(ADD), 1(GEQ), 1(MOV), 2(ADD), 2(COP), 3(CPT)</i>			

Data type Name: path

Description:

Size 88 byte(s)

Name	Data Type	Style	Description
 Path	STRING		

Data type Name: STRING

Description:

Size 88 byte(s)

Name	Data Type	Style	Description
LEN	DINT	Decimal	
DATA	SINT[82]	ASCII	