Camera_1_Pipeline_ZZ - Ladder Diagram
Page 1

AdvManLab:MainTask:MainProgram

10/5/2017 9:01:20 PM
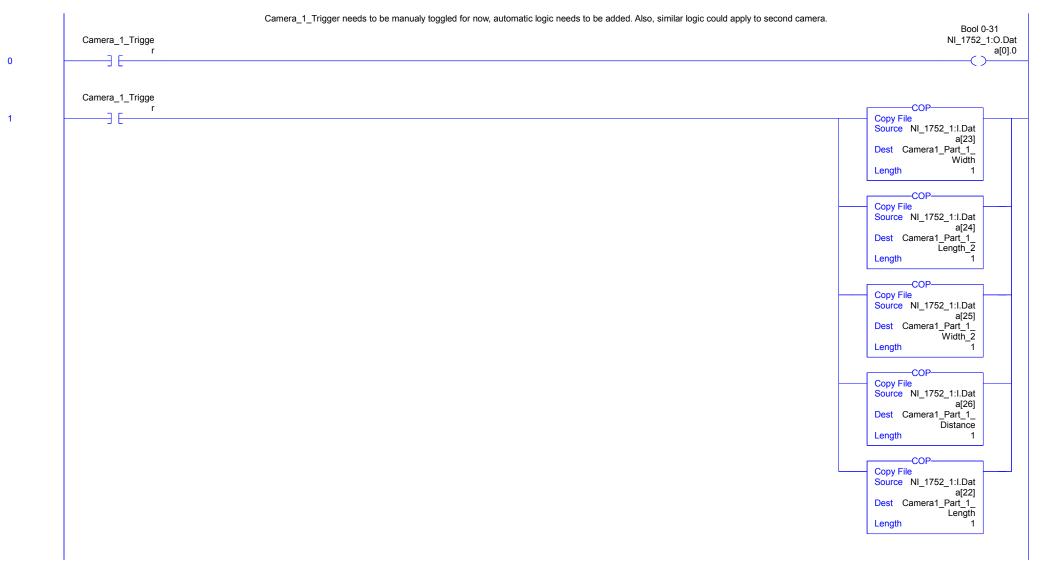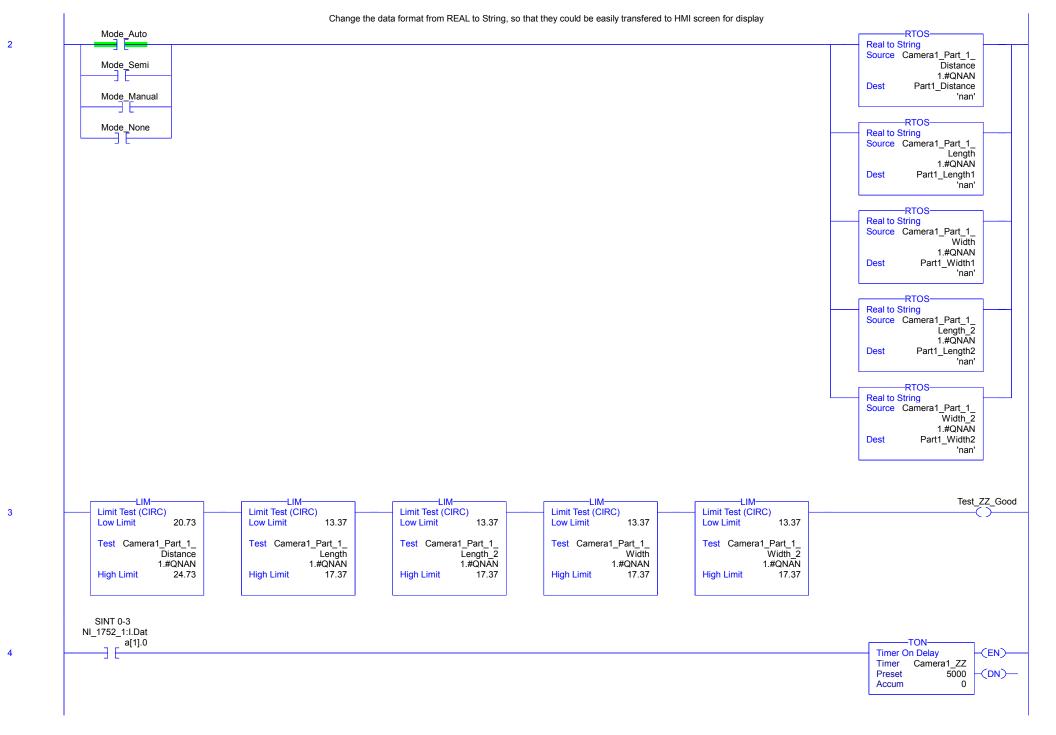
Total number of rungs in routine: 6

C:\Users\VRMILLING\Documents\control_team_manuals\Logic W2017\AdvManLabCurrent.ACD

Camera_1_Trigger needs to be manualy toggled for now, automatic logic needs to be added. Also, similar logic could apply to second camera.

0

Camera_1_Trigger

Bool 0-31
NI_1752_1:O.Data[0].0

1

Camera_1_Trigger

COP
Copy File
Source   NI_1752_1:I.Data[23]
Dest   Camera1_Part_1_Width
Length   1

COP
Copy File
Source   NI_1752_1:I.Data[24]
Dest   Camera1_Part_1_Length_2
Length   1

COP
Copy File
Source   NI_1752_1:I.Data[25]
Dest   Camera1_Part_1_Width_2
Length   1

COP
Copy File
Source   NI_1752_1:I.Data[26]
Dest   Camera1_Part_1_Distance
Length   1

COP
Copy File
Source   NI_1752_1:I.Data[22]
Dest   Camera1_Part_1_Length
Length   1

Change the data format from REAL to String, so that they could be easily transfered to HMI screen for display

2

Mode_Auto
─┤ ├─

Mode_Semi
─┤ ├─

Mode_Manual
─┤ ├─

Mode_None
─┤ ├─

```
┌────────RTOS────────────┐
│ Real to String         │
│ Source   Camera1_Part_1_│
│              Distance  │
│              1.#QNAN   │
│ Dest       Part1_Distance│
│              'nan'     │
└────────────────────────┘

┌────────RTOS────────────┐
│ Real to String         │
│ Source   Camera1_Part_1_│
│              Length    │
│              1.#QNAN   │
│ Dest       Part1_Length1│
│              'nan'     │
└────────────────────────┘

┌────────RTOS────────────┐
│ Real to String         │
│ Source   Camera1_Part_1_│
│              Width     │
│              1.#QNAN   │
│ Dest       Part1_Width1 │
│              'nan'     │
└────────────────────────┘

┌────────RTOS────────────┐
│ Real to String         │
│ Source   Camera1_Part_1_│
│              Length_2  │
│              1.#QNAN   │
│ Dest       Part1_Length2│
│              'nan'     │
└────────────────────────┘

┌────────RTOS────────────┐
│ Real to String         │
│ Source   Camera1_Part_1_│
│              Width_2   │
│              1.#QNAN   │
│ Dest       Part1_Width2 │
│              'nan'     │
└────────────────────────┘
```

3

```
┌─────LIM──────────┐  ┌─────LIM──────────┐  ┌─────LIM──────────┐  ┌─────LIM──────────┐  ┌─────LIM──────────┐
│ Limit Test (CIRC)│  │ Limit Test (CIRC)│  │ Limit Test (CIRC)│  │ Limit Test (CIRC)│  │ Limit Test (CIRC)│
│ Low Limit   20.73│  │ Low Limit   13.37│  │ Low Limit   13.37│  │ Low Limit   13.37│  │ Low Limit   13.37│
│                  │  │                  │  │                  │  │                  │  │                  │
│ Test Camera1_Part_1_│ Test Camera1_Part_1_│ Test Camera1_Part_1_│ Test Camera1_Part_1_│ Test Camera1_Part_1_│
│        Distance  │  │        Length    │  │        Length_2  │  │        Width     │  │        Width_2   │
│        1.#QNAN   │  │        1.#QNAN   │  │        1.#QNAN   │  │        1.#QNAN   │  │        1.#QNAN   │
│ High Limit  24.73│  │ High Limit  17.37│  │ High Limit  17.37│  │ High Limit  17.37│  │ High Limit  17.37│
└──────────────────┘  └──────────────────┘  └──────────────────┘  └──────────────────┘  └──────────────────┘
```

Test_ZZ_Good
─( )─

4

SINT 0-3
NI_1752_1:I.Dat
a[1].0
─┤ ├─

```
┌────────TON────────────┐
│ Timer On Delay    (EN) │
│ Timer    Camera1_ZZ    │
│ Preset         5000 (DN)│
│ Accum             0    │
└───────────────────────┘
```

Rung 5:

Camera1_ZZ.DN — Camera_1_Trigger (U)

(End)