Open data acquisition card

Create file-on-disk and memory map files 1, 2 (First layer of Ping-pang)

Create two memory map views for every memory map file 1_1, 1_2, 2_1, 2_2 (Second layer of Ping-pang)

Start receiving data from data acquisition card?

Y

Put data to memory map view 1_1

Memory map view 1_1 is already full?

Y

Put data to memory map view 1_2

Memory map view 1_2 is already full?

Y

Memory map file 1 is already full?

N

N

N

N

N

N

N

N

Y

Memory map file 2 is already full?

Y

Put data to memory map view 2_1

Memory map view 2_1 is already full?

Y

Put data to memory map view 2_2

Memory map view 2_2 is already full?

Y