

# Outsourcer

## Thread 1

Capture new frame

Compress frame

Sign frame

Send frame

If new response

Verify signature

If index = sample index

Sign frame

Send frame

If new response

Verify signature

Compare responses

## Thread 2

Receive new response

## Thread 3

Receive new response

TCP  
Sending  
Socket

Frame, index,  
number of acknowledged outputs,  
signature

TCP  
Receiving  
Socket

TCP  
Receiving  
Socket

Response, index, signature

TCP  
Sending  
Socket

TCP  
Sending  
Socket

Frame, index,  
number of acknowledged outputs,  
signature

TCP  
Receiving  
Socket

TCP  
Receiving  
Socket

Response, index, signature

TCP  
Sending  
Socket

# Contractor

## Thread 2

Receive new input

## Thread 3

Verify signature

## Thread 1

Preprocessing

Inference

## Thread 4

Postprocessing

Sign response

Send response

# Verifier

## Thread 2

Receive new input

## Thread 3

Verify signature

## Thread 1

Preprocessing

Inference

## Thread 4

Postprocessing

Sign response

Send response