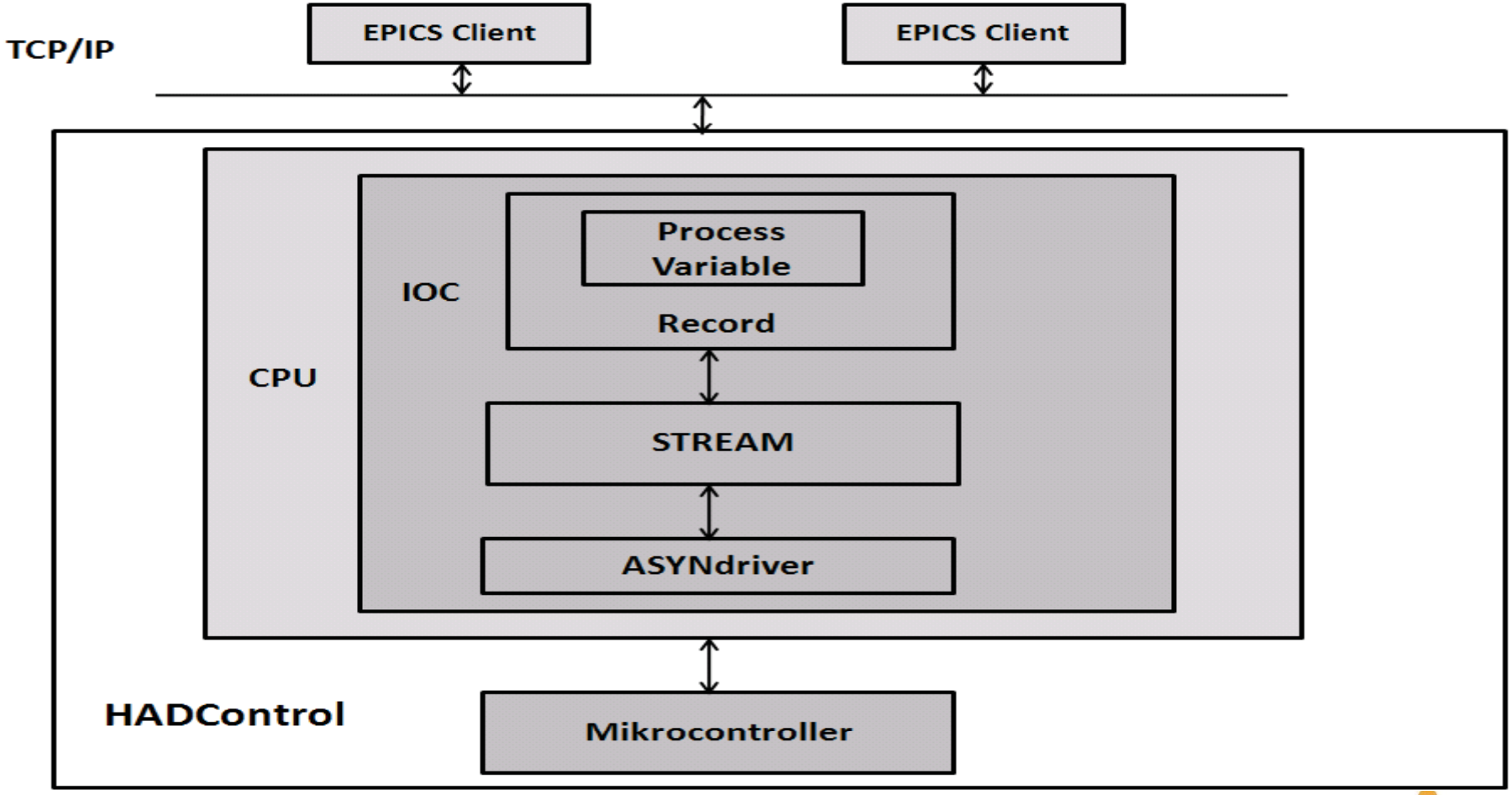
TCP/IP
EPICS Client
EPICS Client
CPU
IOC
Process Variable
Record
STREAM
ASYNdriver
HADControl
Mikrocontroller

- Stream Protocol File

HadConCAN.proto

```
Terminator = LF;
LockTimeout = 4000;
ReplyTimeout = 500;
WriteTimeout = 3000;
ExtraInput = Ignore;

#After processing finishes, the record contains the fan speed Value.
get8{
#Example of command
#field(INP,"@HadConCAN.proto get8(304,0,1,8,recordName,error)HadConCAN")
        #MessageID = %\${1}x;    #Mask = %\${2}x;              #RTR = %\${3}x;
        #Length = %\${4}x;       #recordNamePrefix = %\${5}x;  #errorChannelPrefix = %\${6}x;

         out "SEND \$1 \$2 \$3 \$4";

         in  "RECV %*x %*x %*x %(VAL)x %(\${5}_2.VAL %(\${5}_3.VAL %(\${5}_4.VAL %(\${5}_5.VAL
                                  %(\${5}_6.VAL %(\${5}_7.VAL %(\${5}_8.VAL";

         @mismatch{err_6};
}

#this error is called within other protocols
err_6{
         in "ERR*1c %(\${6}:errorNr.VAL)i %(\%{6}:error.VAL)39c";
}
```

- Record

HadConCAN.db

```
record(ai, “fanSpeed_1”){

        field(DTYP, “stream”)
        field(INP,“@HadConCAN.proto get8(304,0,1,8,fanSpeed,error) HadConCAN”)

}
```

```
record(ai ,”fanSpeed_2”){
}
. . .
record(ai ,”fanSpeed_8”){
}
```

```
#Definition of ASYN port and its attributes connecting to a serial device
drvAsynSerialPortConfigure("HadConCAN","/dev/ttyS1",0,0,0)
asynSetOption("HadConCAN",0,"baud","38400")
asynSetOption("HadConCAN",0,"bits","8")
asynSetOption("HadConCAN",0,"parity","none")
asynSetOption("HadConCAN",0,"stop","1")
asynSetOption("HadConCAN",0,"clocal","Y")
asynSetOption("HadConCAN",0,"crtscts","N")



## Load record instances
dbLoadRecords("db/HadConCAN.db","HOSTNAME=${HOSTNAME}")
```