

Vibration sender

Here is a script which simulates three sensors performing a vibration signal acquisition in real time. This file works with corresponding vibration receiver.

```
send( )
```

```
send( )
```

```
{  
  1 c1 := channel create("vibration sender 1" , "write")  
  2 c2 := channel create("vibration sender 2" , "write")  
  3 c3 := channel create("vibration sender 3" , "write")  
  4 fileID := user dir( ) + "/Flexitek/" + "carengine.wav"  
  5 file copy("carengine.wav" , user dir( ) + "/Flexitek")  
  6 props := wave properties(fileID)  
  7 signal1 := wave read(fileID)  
  8 tt := ynodes(x , 0 , 0.5 , 20000)  
  9 count := 0  
 10 noise := normrandvec(0 , 1 , 20000)  
 11 temp := 1 · sin(2 ·  $\pi$  · 100 · tt)  
  while(true)  
  {  
    1 a := mod(count , 10)  
    2 ind1 := a · 20000  
    3 ind2 := ind1 + 19999  
    4 count = count + 1  
    5 buffers := subset(signal1 , ind1 , 0 , ind2 , 0)  
    6 buffersnoisy := buffers + noise  
    7 bufferssin := buffers + temp  
    8 w1 := channel write(c1 , buffers)  
    9 w2 := channel write(c2 , buffersnoisy)  
   10 w3 := channel write(c3 , bufferssin)  
   11 print("channel 1 sending " + to string(size(w1)) + " data")  
   12 sleep(1000)  
  }  
}
```