

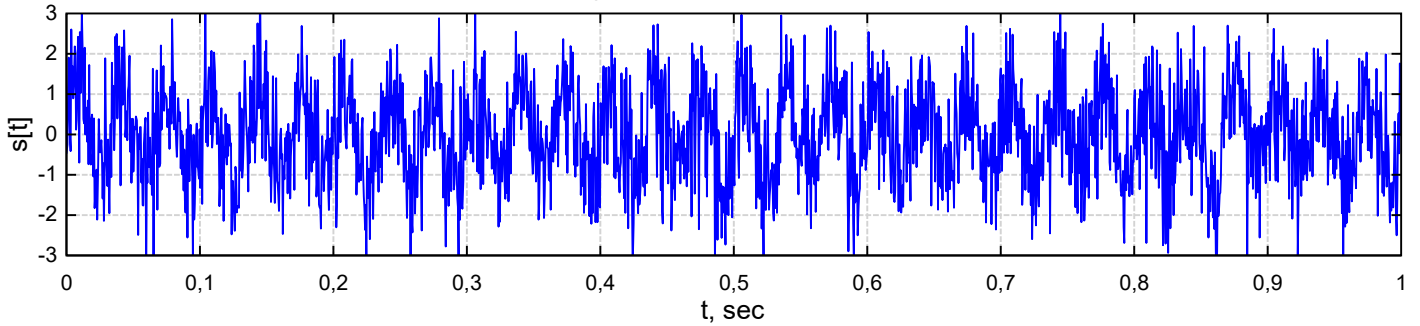
An example of using the function filter_iir()

```
ord := 6   N := 2000   t_min := 0   t_max := 1   Δt :=  $\frac{t_{max} - t_{min}}{N - 1}$    f := 30   appVersion(4) = "0.99.7921.69"
```

```
t := Δt · ([0..(N-1)])
```

```
s :=  $\sin(2 \cdot \pi \cdot f \cdot t)$  + dspl_randn(N, 0, 1)
```

Signal with additive noise



```
ba := dspl_iir(1, 70, ord, 0.06, 0, "ELLIP | LPF")   b := ba_1   a := ba_2
```

```
bT = [ 0.0004 -0.0019 0.0042 -0.0054 0.0042 -0.0019 0.0004 ]
```

```
aT = [ 1 -5.7702 13.9303 -18.0087 13.1476 -5.1394 0.8403 ]
```

```
s_f := dspl_filter_iir(b, a, ord, s)
```

Filtered signal

