

Digital Moving Average Filter in C-code

Sumário

1	Introduction.....	2
2	Experimental Results.....	2
3	C-code	2


```
static float valor = 0;
```

```
static float saida_filtro = 0;
```

```
static unsigned int i = 0;
```

```
float InvNAmostrasFiltro = 0.001; //for 1000 samples
```

```
valor = x1;
```

```
valor = (float) valor * InvNAmostrasFiltro; //take the average value from the escalar product
```

```
saida_filtro += valor - buffer[i];
```

```
buffer[i] = valor;
```

```
i++;
```

```
if(i >= 1000) i = 0;
```

```
y1 = saida_filtro;
```