

adjMat.c

./adjMat 4 1 mat

mat

4

0 1 0 1

1 0 1 1

0 1 0 1

1 1 1 0

fir_NC

sample_t fir_NC(sample_t* muestra);

for(i = 0; i<TAP_LENGTH; i++)

out+=coefsLocalesNC[i] * *(muestra-i);

TAP_LENGTHTAP_LENGTHTAP_LENGTH

floatdoublefloatdoubledouble

```

for(i = TAP_LENGTH-1; i>0; i--)
    buffer[i]=buffer[i-1];
buffer[0]=muestra;

```

```

for(i = 0; i<TAP_LENGTH; i++)
    out+=coefsLocales[i] * buffer[i];

    TAP_LENGTHTAP_LENGTH
    TAP_LENGTH

```

```

void update_p(int paso);

```

```

update_pTAP_LENGTHfir(sample_t muestra)TAP_LENGTHTAP_LENGTHupdate_p(int paso)

```

```

update_p

```

```

-0

```

```

update_p

```

```

void update_p(int paso){
    if(p!=0){
        p = (p+paso) % p;
    }else{
        p+=paso;
    }
}

```

update_ppaso

```

void update_p(){
    if (p+1<0){
        p = TAP_LENGTH + p + 1;
    } else if (p+1>TAP_LENGTH-1){
        p = p + 1 - TAP_LENGTH;
    } else {
        p = p + 1;
    }
}

```

inlinefir.hupdate_p

```
static inline void update_p(int paso);
```

update_pfir

```

gcc -std=c99 -finline-small-functions testfir.o fir.o -o fir_exe
-finline-small-functions

```

```

#define update_p(p){\
    if (p+1<0){\
        p = TAP_LENGTH + p + 1;\
    } else if (p+1>TAP_LENGTH-1){\
        p = p + 1 - TAP_LENGTH;\
    } else {\
        p = p + 1;\
    }\
}

```

```

fir
update_p

#define update_p(p){ \
    if(p!=0){ \
        p = (p+1) % p; \
    }else{ \
        p += 1; \
    } \
}

```