

Filter parameters are fixed during one data processing session which runs procedure multiple times.

```
__global__ void handleData  
    (int* filterParams, int* data, ...)  
{  
    __shared__ int cachedFilterParams[size];  
  
    /*some code to load filterParams  
     to cachedFilterParams*/  
    ...  
}
```

Data is split into multiple chunks, thus the procedure is run many times

Filter params are read only and the same for all threads, so they are copied into shared memory to reduce memory traffic. In some cases this data can be placed in the constant memory.

Can we automatically create an optimal procedure for partially known parameters?