| gstsdxnet | neuralnet | funkcje akcelerowane |
|---|---|---|

Inicjalizacja pluginu

```
gst_sdx_net_set_caps(...) {
   ...

   net_init_sds(height,
      width, pixel_form,
      data_pointer)

   ...
}
```

⇨

```
net_init_sds(..., data_pointer) {
   struct * data = malloc(...)
   data->luma = new xf::Mat...
   ...
   *data_pointer = data
}
```

Przetwarzanie klatki obrazu

```
gst.._process_frames(
   *in_frame, *out_frame,
   ...) {
   ...
   net_sds_read(
      in_frame_data,
      data_pointer, ...)
```

⇨

```
net_sds_read(*in_frame_data,
   *data, ...) {
   ...
   read_net_input(
      in_frame_data,
      data->luma,
      data->uv, ...)
}
```

⇨ read_net_input

```
   net_sds_predict(
      predictions_pointer,
      data_pointer)
```

⇨

```
net_sds_predict(*predictions,
   *data) {
   ...
   nn(data->luma, predictions)
   ..
}
```

⇨ nn

```
   digit, prob =
   get_max(predictions_pointer)

   printf("%d %f", digit, prob)

   net_sds_write(
      out_frame_data,
      data_pointer, ...)

   ...

}
```

⇨

```
net_sds_write(*out_frame_data,
   *data, ...) {
   ...
   write_net_output(
      data->luma,
      data->uv,
      out_frame_data...)
}
```

⇨ write_net_output