stl version v3.8.3.0

Date: 2024.07.31

Issues in Milestone

- [16] #autosub Add the ability to combine multiple modes "subtitle_write_mode"
- [17] #autosub Wait some iterations to fill subtitle lines if there are not fully completed

Features

#autosub Add the ability to combine multiple modes "subtitle_write_mode"
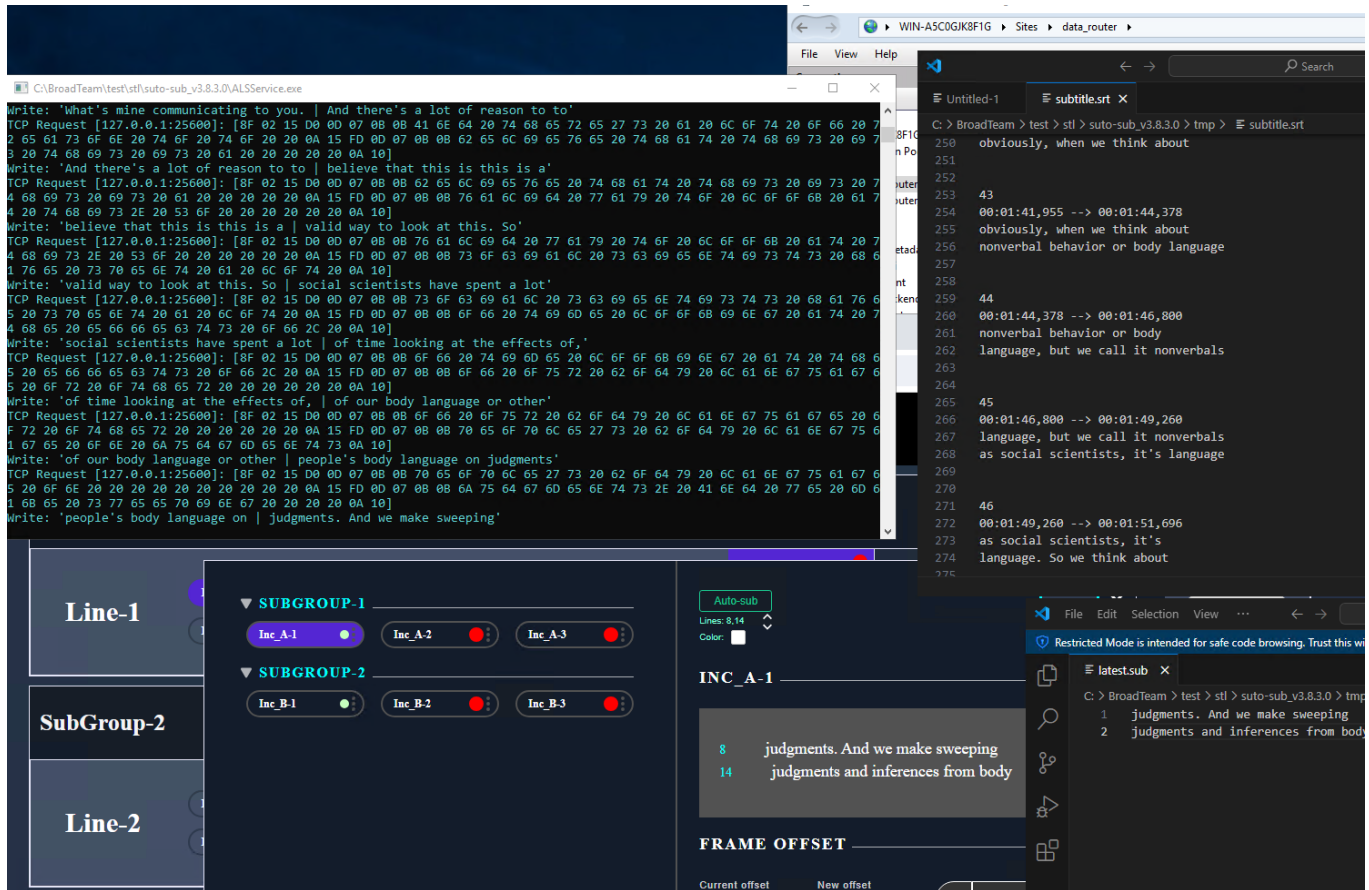
Changed `subtitle_write_mode` settings in file `ApplicationSettings.json` from single value to array

Example:

```
{
  "grpc_service_ip": "127.0.0.1",
  "grpc_service_port": 9740,
  "subtitles_timeout_ms": 2000,
  "subtitle_lines": "8,14",
  "subtitle_start_mode": 1,
  "subtitle_write_mode": [ 0, 1, 2 ], // <--- Changed to Array
  "subtitle_srt_path": "./tmp/subtitle.srt",
  "subtitle_latest_path": "./tmp/latest.sub",
  "subtitle_gen_line_mode": 0
}
```

Now can be activated all modes

- Send via TCP or UDP as Newfor
- Write to SRT file
- Write latest subtitle to a file as simple text

#autosub Wait some iterations to fill subtitle lines if there are not fully completed

The problem is that when receiving a subtitle - the line may not be completely filled yet.

Thus, we get a duplicate subtitle.

For example:

```
- ...
- So I want to start by offering you | a free no tech life hack
- So I want to start by offering you | a free no tech life hack, and all
- ...
```

To avoid such a situation and not to lose the last subtitle when the transcription stops coming, we add a new parameter `subtitle_extract_attempts` to the settings file

`ApplicationSettings.json`, which specifies the number of iterations that will wait for the Transcription to come in before giving an incompletely formed subtitle. One iteration is specified milliseconds in `subtitles_timeout_ms`.

```
Open ffmpeg process
ffmpeg parameters: '-loglevel 1 -i D:\Testing\evs\source_video\AmyCuddy_2012G-480p.mp4 -ar 44100 -ac 2
Initialize speechmatics api: 'wss://neu.rt.speechmatics.com/v2' Language: 'en' Translation: []
Speechmatics api address 'wss://neu.rt.speechmatics.com/v2' Language 'en'
Clear buffer
New speechmatics buffer for the language 'en' was added. Line generation mode: ClearAllLines
Waiting next Transcription. Current attempt 1 from 5
Waiting next Transcription. Current attempt 2 from 5
Write: 'So I want to start by offering you | a free no tech life hack. Um, and'
Waiting next Transcription. Current attempt 1 from 5
Write: 'all it requires of you is this that | you change your posture for'
Waiting next Transcription. Current attempt 1 from 5
Waiting next Transcription. Current attempt 2 from 5
Write: 'two minutes. But before I give it | away, I want to ask you to right'
Write: 'now, do a little audit of your body | and what you're doing with your'
Write: 'body. So how many of you are sort | of making yourself smaller? Maybe'
Waiting next Transcription. Current attempt 1 from 5
Write: 'you're hunching, um, crossing your | legs, maybe wrapping your ankles.'
Waiting next Transcription. Current attempt 1 from 5
Waiting next Transcription. Current attempt 2 from 5
Waiting next Transcription. Current attempt 3 from 5
Write: 'Sometimes we hold on to our arms | like this. Uh, sometimes we spread'
Waiting next Transcription. Current attempt 1 from 5
Waiting next Transcription. Current attempt 2 from 5
Write: 'out. I see you, um, so I want you | to pay attention to what you're'
Write: 'doing right now. We're going to | come back to that in a few minutes'
Write: '. And I'm hoping that if you sort | of learn to tweak this a little bit'
Waiting next Transcription. Current attempt 1 from 5
Waiting next Transcription. Current attempt 2 from 5
Write: ', it could significantly change the | way your life unfolds. Um, so we're'
Waiting next Transcription. Current attempt 1 from 5
Waiting next Transcription. Current attempt 2 from 5
Write: 'really fascinated with body | language, and we're particularly'
Write: 'interested in other people's body | language. You know, we're'
Waiting next Transcription. Current attempt 1 from 5
Write: 'interested in like, you know, um, | a, uh, an awkward interaction or a'
Waiting next Transcription. Current attempt 1 from 5
Waiting next Transcription. Current attempt 2 from 5
Waiting next Transcription. Current attempt 3 from 5
Write: 'smile or a contemptuous glance or | maybe a very awkward wink, or maybe'
Waiting next Transcription. Current attempt 1 from 5
Write: 'even something like a handshake. | Here they are arriving at number'
Write: 'ten. And look at this lucky | policeman gets to shake hands with'
Write: 'the president of the United | States. Oh, and here comes the'
Ready
```