

Highlighter cli application input/output interface message protocol definition

Highlighter cli application is a part of ASM Tools package that implements the textual content processing according the specification defined in the Highlight_of_text_patterns_entrances_specification.docx document.

Command line interface application interacts as regular Linux filter command. Source data stream is stdin and destination data stream is stdout. Stream input/output protocol is json message.

Json message format for input data stream to process

```
{
  "q": "<query_string>",
  "return_hash":<true|false>,
  "contents": [[ "<textual_content>", "<base64_encoded_hashe>" ], ... ],
  "parameters": [<query_parameters>]
}
```

query_string – query string to highlight entrances, utf8-encoded

textual_content – content to highlight entrances from query string, utf8-encoded

query_parameters – array of parameters:

```
  "begin_marker": "<marker_pattern>",
  "end_marker": "<marker_pattern>",
  "max_number": "<max_number>",
  "delimiters": "<delimiters_list>",
  "acronyms": "<acronyms_list>",
  "numbers_as_words": "<numbers_as_words>",
  "use_single_chars": "<use_single_chars>"
  "timeout": "<timeout_ms>"
```

Json message format for output data stream processing results

```
{
  "error_code": "<error_code>",
  "error_msg": "<error_msg>",
  "contents": [ "<textual_content>", ... ],
  "highlighted": "<highlighted_counter>",
  "found": "<found_counter>",
  "time": "<total_time_elapsed_ms>"
}
```